German Warships OF WORLD WAR I

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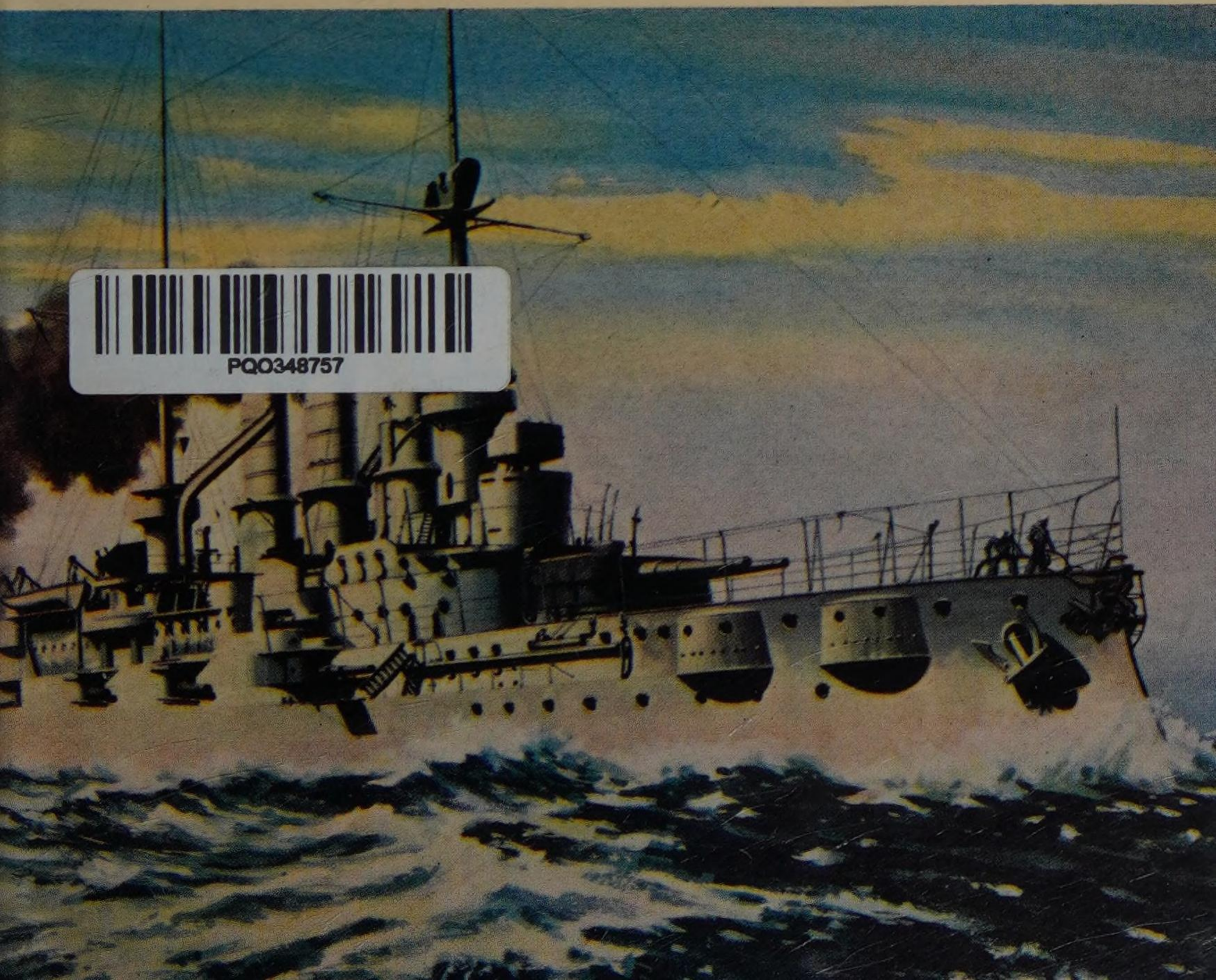
JOHN C. TAYLOR



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German Warships of World War I

J. C. TAYLOR

In the first World War Germany possessed a fine, modern Fleet. The ships were well designed, strongly constructed and in every sense fine fighting ships.

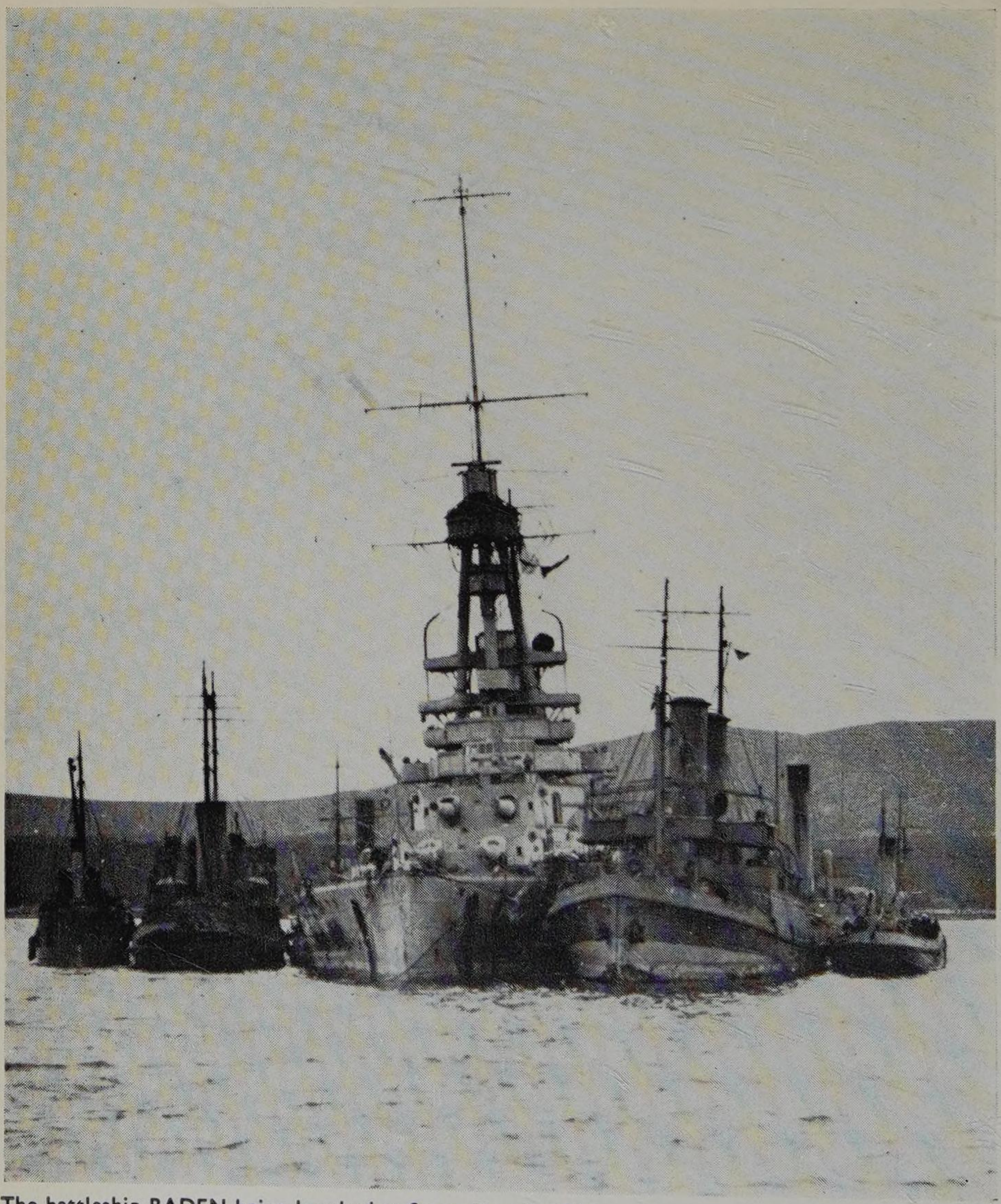
In this book can be traced the rise of the Imperial German Navy from its origin, growth during the "Naval Race" with Great Britain, its use in battle and final dissolution under the Peace Treaty, which left Germany with a handful of obsolete warships suitable only for coastal defence.

Seldom, if ever before has such a well balanced Fleet enjoyed such a brief moment of glory.

The rapid growth of the submarine service and the priority given to its construction in the latter part of the war provides an interesting and frightening parallel with the similar situation in World War II.

Continuing the Ian Allan series of books dealing with warships, the usual details of individual ships are given, thus providing a reference book to all those German fighting ships which participated in World War I.

GERMAN WARSHIPS OF WORLD WAR I



The battleship BADEN being beached at Scapa Flow in 1919. [P. A. Vicary

GERMAN WARSHIPS OF WORLD WAR I

J. C. TAYLOR

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PREFACE

IN this book is listed the great majority of fighting ships of the Imperial German Navy which took part in World War I, together with the larger auxiliary vessels. Also included are those vessels laid down during the war which were either completed too late or scrapped before completion.

The figure given for Displacement is the Standard Displacement, while the overall length is quoted. The date "stricken" is that on which the vessel was removed from the German Navy List.

In giving the calibre of guns and diameter of torpedoes the metric measurements have been converted as follows:—

38·00	cm.	—	15	inch.
30·50	,,	—	12	,,
28·00	,,	—	11	,,
24·00	,,	—	9·4	,,
21·00	,,	—	8·2	,,
15·00	,,	—	5·9	,,
10·5	,,	—	4·1	,,
8·8	,,	—	3·4	,,
60·00	,,	—	24	,,
50·00	,,	—	20	,,
45·00	,,	—	18	,,
35·00	,,	—	14	,,

In details of service, given for the larger units, gaps in date sequence denote service with the Fleet.

During this period German warships were painted a lighter shade of grey than that used in the contemporary Royal Navy, while torpedo craft were often black or dull brown. The ships' names carried the prefix "S.M.S."—Seiner Majestät Schiff.

The author wishes to express his appreciation to Messrs. George A. S. Ransome and L. Gray, both fellow members of the World Ship Society and also to Mr. P. A. Vicary, Major Aldo Fraccaroli, and the staffs of the Photographic Libraries of the Imperial War and National Maritime Museums for their assistance in providing the selection of photographs.

J.C.T.

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INTRODUCTION

THE RISE AND DECLINE OF THE IMPERIAL GERMAN NAVY

KAISER WILHELM II was an enthusiast for navies and was strongly impressed by the theories of the American naval historian, A. T. Mahan. He was also influenced by the German Admiral Alfred von Tirpitz, who, remembering the close blockade maintained by France in the 1870 war believed that Germany too, must possess a powerful navy.

In 1897 Tirpitz became Secretary of the Navy and immediately instituted a vigorous press campaign to this end, backed up by the propaganda of the Navy League.

In 1898 the Reichstag passed the first Navy Law, which incorporated the principle of fixed establishments and regular replacement of obsolete ships. The Fleet, necessary to fulfil Germany's needs was fixed at:—

19 battleships (two in reserve),
8 armoured coast defence ships,
6 large cruisers,
16 smaller cruisers,

with 6 large and 14 small cruisers for foreign service. This was to be attained by the end of 1903. The life of battleships and armoured coast defence ships was established as 25 years.

The ships reckoned in the establishment, built or building, were:—

Battleships—5 WITTELSBACH, 5 KAISER, 4 WORTH, 4 BADEN and 1 OLDENBURG classes.
Coast defence ships—6 SIEGFRIED, 1 ODIN, 1 AEGIR.
Large cruisers—KÖNIG WILHELM, KAISER, DEUTSCHLAND.

The South African War and other incidents raised anti-British feeling and in 1900 the first Act was replaced by a second Naval Act, which in its final form called for a navy of :—

38 battleships,
14 large cruisers,
38 small cruisers,
96 destroyers.

As before, battleships were to be replaced after 25 years and cruisers after 20. Two battle squadrons were to be maintained on a war footing and two to form the Reserve Fleet, half of which was to be kept in permanent commission.

The rise of the Imperial German Navy began to cause anxiety in Britain, particularly in 1902 when an unintended disclosure revealed German plans to build even further heavy ships. Furthermore it was realised from a belated study of the WITTELSBACH battleships that with their cramped conditions and low endurance they were intended as part of a short range striking force.

Hitherto the main aim of British diplomacy had been to restrain Russia in the Far East and in 1902 an alliance was signed with Japan, an alliance designed more for negotiation than fighting.

The Russo-Japanese War of 1905 brought matters to a head and the elimination of the Russian battle fleet at the Battle of Tsushima left Japan the undisputed leading naval power in the Far East.

Except for small squadrons overseas in the colonies Germany had been able to concentrate her Navy in home waters, mainly based on Kiel and Wilhelmshaven, from which it could quickly emerge into the North Sea, in contrast to the World wide commitments of the Royal Navy. Japan's triumph and her alliance allowed certain withdrawals from the Far East and an agreement with France followed that she would concentrate her navy in the Mediterranean. These two measures allowed the Royal Navy also to concentrate more in British waters, to face the growing threat across the North Sea.

In 1906 DREADNOUGHT was built on such revolutionary lines that overnight all other battleships became obsolete. Other naval powers followed suit by laying down ships of similar power but she had been built with such speed and secrecy that 4 British "Dreadnoughts" were commenced before NASSAU, the first German one was ready.

Similarly with battlecruisers, the first 3 INVINCIBLE class were completed in 1908, while BLÜCHER was not finished until 1909, and then with only 8·2 inch guns, as Fisher had let it be known that the INVINCIBLE class carried guns of that calibre. The first true German battlecruiser—VON DER TANN was not completed until 1910.

In 1908 Germany passed another Navy Act, further increasing the number of heavy ships, while the life of a battleship was now to be reckoned as 20 years instead of 25, enabling an earlier replacement of older tonnage.

In addition the "large cruisers" of the 1900 Act were now to be battlecruisers, so that instead of 38 battleships and 20 armoured cruisers as established under the Act of 1906 the Fleet would now consist of 58 battleships and battlecruisers.

The need for building large ships had posed problems. Harbours had to be deepened and widened and larger docking facilities had to be constructed, and perhaps even more important, the Kiel Canal had to be deepened and widened. Until this work was completed Germany was not ready for war, but on the other hand it enabled ships of greater beam and consequently greater protection to be built, whereas the dimensions of British ships were largely determined by already existing facilities.

The pace of building did not slacken and for the years immediately before 1914 Germany adopted the following programmes:—

1909 OLDENBURG,
FRIEDRICH DER GROSSE,
KAISERIN,
GOEBEN (battlecruiser),
1910 KAISER,
KÖNIG ALBERT,
PRINZREGENT LUITPOLD,
SEYDLITZ (battlecruiser),
1911 KÖNIG,
MARKGRAF,
GROSSER KURFURST,
DERFFLINGER (battlecruiser)
1912 KRONPRINZ WILHELM,
LÜTZOW (battlecruiser),
1 ship sacrificed.
1913 BADEN,
BAYERN,
HINDENBURG (battlecruiser),
1914 SACHSEN.

In 1914 all 14 battleships and 5 of the 6 battlecruisers were in German waters, only GOEBEN being absent in the Mediterranean, and these were accompanied by a fleet of cruisers, destroyers and ancillary warships.

With the cessation of hostilities the dispersal of the German Navy was rapid.

Under the armistice terms the newer units of the Fleet—the battleships BADEN, BAYERN, FRIEDRICH DER GROSSE, KAISER, PRINZ-REGENT LUITPOLD, KAISERIN, KÖNIG ALBERT, GROSSER KURFÜRST, KRONPRINZ WILHELM, MARKGRAF and KÖNIG; the battlecruisers HINDENBURG, DERFFLINGER, SEYDLITZ, MOLTKE and VON DER TANN; the cruisers KARLSRUHE, NURNBERG, KÖLN, FRANKFURT, DRESDEN, EMDEN, BRUMMER and BREMSE; fifty destroyers and all submarines were to be handed over.

The surface ships were steamed to the Firth of Forth and later to Scapa Flow. Under the armistice terms they technically remained German property, but on 21st June 1919, on the original expiry date of the armistice, in the absence of news from either Germany or Britain they were scuttled on the orders of the Admiral Commanding Internment Unit—Admiral von Reuter.

The submarines were mostly sailed in batches to Harwich and interned there, before dispersal among the Allies, mostly for scrapping.

A few of the remaining newer ships were incorporated in Allied navies. The cruisers KOLBERG, STRALSUND, REGENSBURG, KÖNIGSBERG, STRASSBURG, GRAUDENZ and PILLAU went to France and Italy as, respectively COLMAR, MULHOUSE, STRASBOURG and METZ (French) and TARANTO, ANCONA and BARI (Italian), accompanied by a number of destroyers, submarines and ancillary ships. The remainder were dispersed for scrapping.

A few of the older ships were left to Germany for coastal defence—the pre-dreadnought battleships ELSASS, BRAUNSCHWEIG, HANNOVER, SCHLESWIG-HOLSTEIN, SCHLESIEN, HESSEN, LOTHRINGEN and PREUSSEN; the light cruisers MEDUSA, THETIS, ARKONA, HAMBURG NYMPHE, NIOBE, AMAZONE and BERLIN, as well as 32 destroyers and torpedo boats, plus minesweepers and auxiliaries.

Although many were subsequently scrapped, some of these survived to fight again under the German flag in World War II.

At the time of writing (1968) little remains of the once proud Imperial Navy. A few small vessels survive in various parts of the world in various guises, but the most interesting survivor is the GOEBEN, now the Turkish battlecruiser YAVUZ, de-commissioned, laid up and awaiting disposal with an uncertain future, the last true battlecruiser, and the last survivor from an era that is gone.

THE ORGANIZATION OF THE HIGH SEAS FLEET AS IT SAILED 31.5.16

BEFORE THE BATTLE OF JUTLAND

In Germany this battle is known as Skagerrak, and not Jutland.

Battle Fleet

Squadron I

FRIEDRICH DER GROSSE (f.f.),
OSTFRIESLAND (f.),
THURINGEN,
HELGOLAND,
OLDENBURG,
POSEN (f),
RHEINLAND,
NASSAU
WESTFALEN.

Squadron II

DEUTSCHLAND (f.),
HESSEN,
POMMERN,
HANNOVER (f.),
SCHLESIEN,
SCHLESWIG-HOLSTEIN

Squadron III

KÖNIG (f.),
GROSSER KURFÜRST,
KRONPRINZ,
MARKGRAF,
KAISER (f.),
KAISERIN,
PRINZREGENT LUITPOLD.

Light Cruisers

Scouting Group IV

STETTIN (f.), MÜNCHEN, HAMBURG, FRAUENLOB, STUTTGART

Torpedo Boat Flotillas

ROSTOCK (f.), light cruiser,

1st Flotilla (1st Half)	4	boats,
3rd ,,	7	,,
5th ,,	11	,,
7th ,,	9	,,

Battlecruiser Force

Scouting Group I

LÜTZOW (f.),
DERFFLINGER,
SEYDLITZ,
MOLTKE,
VON DER TANN.

Scouting Group II light cruisers

FRANKFURT (f.),
WIESBADEN,
PILLAU,
ELBING.

Torpedo Boat Flotillas

REGENSBURG (f.) light cruiser,

2nd Flotilla	10	boats,
6th ,,	9	,,
9th ,,	11	,,

Notes. (f.f.) — Fleet flagship,
(f.) — Flagship.

LIST OF GERMAN WORLD WAR I NAVAL LOSSES

1 Battleship—POMMERN,

1 Battlecruiser—LÜTZOW,

6 Armoured cruisers—YORCK, FRIEDRICH KARL, SCHARNHORST, GNEISENAU, BLÜCHER, PRINZ ADALBERT.

18 Light cruisers—MAGDEBURG, KÖLN, MAINZ, ARIADNE, HELA, KARLSRUHE, EMDEN, LEIPZIG, NÜRNBERG, DRESDEN, KÖNIGSBERG, UNDINE, BREMEN, WIESBADEN, ROSTOCK, ELBING, FRAUENLOB, BRESLAU.

10 Gunboats—KORMORAN, ILTIS, JAGUAR, LUCHS, TIGER, GEIER, EBER, TSINGTAU, OTTER, VATERLAND.

107 Destroyers and torpedo boats—T.25, 43, 46, 47, 50, 51, 52, 54, 56, 57, 58, 64, 65, 66, 67, 68, 78, 90, 100, 115, 116, 187, 188, 191, 194, TAKU,
V.4,
G.9, 12,
S.13, 14, 15, 16, 17, 20, 21, 22,
V.25, 27, 29, 30,
S.31, 33, 34, 35,
G.37, 41, 42,
V.47, 48,
S.57, 58, 59, 61, 62, 64, 66,
V.67, 68, 69, 72, 74, 75, 76, 77, 84,
G.85, 87, 88, 90, 93, 94, 96,
V.99, 107,
A.2, 3, 6, 7, 10, 13, 15, 19, 50, 51, 56, 57, 58, 60, 71, 72, 73, 77, 79, 82.

198 Submarines—U.5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 18, 20, 23, 26, 27, 28, 29, 31, 32, 34, 36, 37, 39, 40, 41, 44, 45, 47, 48, 49, 50, 51, 56, 58, 59, 61, 64, 65, 66, 68, 69, 72, 73, 74, 75, 76, 77, 78, 81, 83, 84, 85, 87, 88, 89, 92, 93, 95, 99, 102, 103, 104, 106, 109, 110, 154, 156.
UB.1, 3, 4, 7, 10, 12, 13, 16, 18, 19, 20, 22, 23, 26, 27, 29, 30, 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 44, 45, 46, 48, 52, 53, 54, 55, 56, 57, 58, 59, 61, 63, 65, 66, 68, 69, 70, 71, 72, 74, 75, 78, 81, 82, 83, 85, 90, 103, 104, 107, 108, 109, 110, 113, 115, 116, 119, 123, 124, 127, 129,
UC.1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 21, 24, 25, 26, 29, 30, 32, 33, 34, 35, 36, 38, 39, 40, 41, 42, 43, 44, 46, 47, 48, 49, 50, 51, 53, 54, 55, 56, 57, 61, 62, 63, 64, 65, 66, 68, 69, 70, 72, 75, 77, 78, 79.

29 Minesweepers,

5 Special ships,

17 Auxiliary cruisers,

170 Auxiliary ships,

30 Naval airships.

PART 1 — CAPITAL SHIPS

The German theory that it was quicker and more economic to repair a ship however badly damaged rather than build a replacement was carried to the ultimate in capital ships. This legacy was handed down to the German naval constructors of World War II, and in both wars ships reached port after damage that would have caused the loss of ships of other navies.

As examples, at Jutland LÜTZOW, with 8,300 tons of water aboard was still upright when almost awash, before being sunk by their own forces. SEYDLITZ, on her return, grounded on Horns Reef, and got off by her own efforts, drawing 43 feet forward, and finally reached port with her fore-castle awash.

This ability to take punishment was achieved by several methods.

The increased beam allowed additional armour protection and larger inboard coal bunkers to absorb shell and torpedo hits.

If damaged, the system of additional bulkheading and the excellent system of damage control assisted in keeping the ships afloat.

At the Dogger Bank SEYDLITZ received hits on turrets which caused cordite fires and explosion was only averted by the prompt flooding of the magazines. Profiting from this, the Germans modified their arrangements for handling cordite by better anti-flash precautions and whereas in the Royal Navy cordite charges were contained in silk bags, in the Imperial Navy they were enclosed in metal cylinders and canisters.

A smaller calibre was accepted for the main armament, thus the weight saved could be devoted to more protection.

Night signalling and searchlight control were excellent, again evident in the night fighting during the closing stages of Jutland.

The German stereoscopic rangefinders were more accurate than the British coincidence type, thus the Germans were more likely to hit with their opening salvos. On the other hand they lagged behind in methods of gunnery control and were slower in adopting the director method.

Due to uncertainty of oil supplies a far greater reliance was placed on coal firing for all classes of ships, but the coal bunkers themselves provided added protection in cushioning the effect of hits.

In 1916 after Jutland work was suspended on new capital ships and the resources saved utilized for the extensive submarine building programme.

BATTLESHIPS

Westfalen class

Displacement: 18,900 tons.
Dimensions: 478 ft. × 89 ft. × 27½ ft.
Machinery: 3-shaft Reciprocating (VTE) engines, I.H.P. 25/28,000 = 20 knots. Coal/oil fired.
Protection: Main belt 4-6 in. (ends), 11½ in. (amid.), decks 4 in., turrets 11 in., C.T. 12 in.
Armament: 12-11 in. (6× 2), 12-5·9 in. (12 × 1), 16-3·4 in. (16 × 1), guns: 6-18 in. (1 bow, 4 beam, 1 stern) T.T., all submerged.
Complement: 963.

Name	Builder	Launched	Fate
WESTFALEN	A. G. Weser, Bremen	1. 7.08	1924 scrapped, Birkenhead.
NASSAU	Wilhelmshaven D.Y.	7. 3.08	1920 scrapped, Dordrecht.
POSEN	Germaniawerft Kiel	12.12.08	1921 scrapped, Dordrecht.
RHEINLAND	A. G. Vulcan, Stettin	26. 9.08	1922 scrapped, Dordrecht.

Notes: All completed 1909/10. First German Dreadnoughts. The combination of short length and broad beam gave steady gunnery platform, but cramped living conditions. Uneconomical disposition of main armament giving only 8 gun broadside. From 1915-1917 3·4 in., guns were removed and 4-3·4 in. A.A. guns substituted.

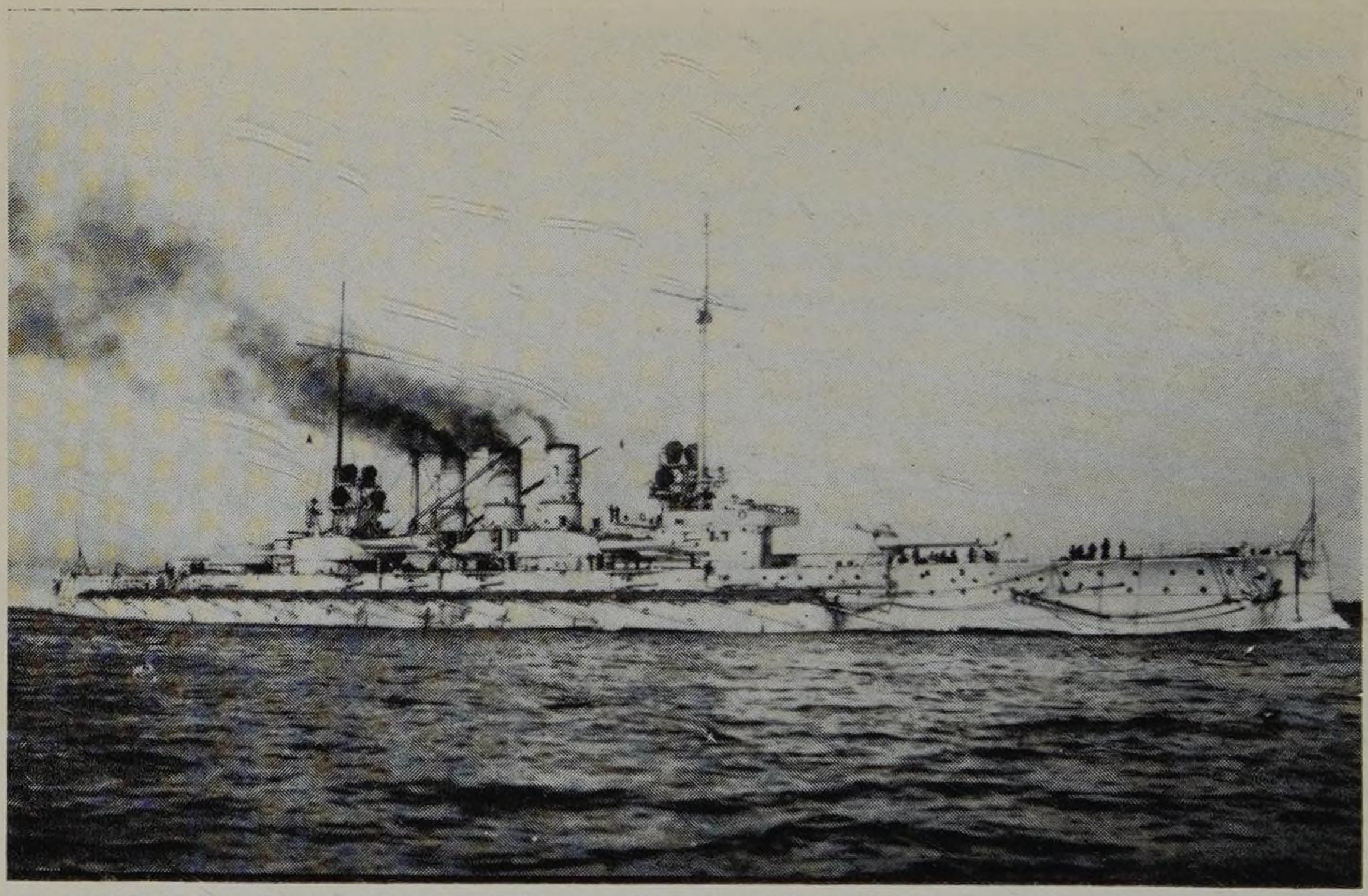
WESTFALEN: 31.5.16 Jutland, 1.9.18 Gunnery training ship, 5.11.19 stricken, 5.8.20 surrendered, allocated to U.K. for scrapping.

NASSAU: 31.5.16 Jutland, 5.11.19 stricken, 7.4.20 surrendered and allocated to Japan. NASSAU was the first German Dreadnought completed.

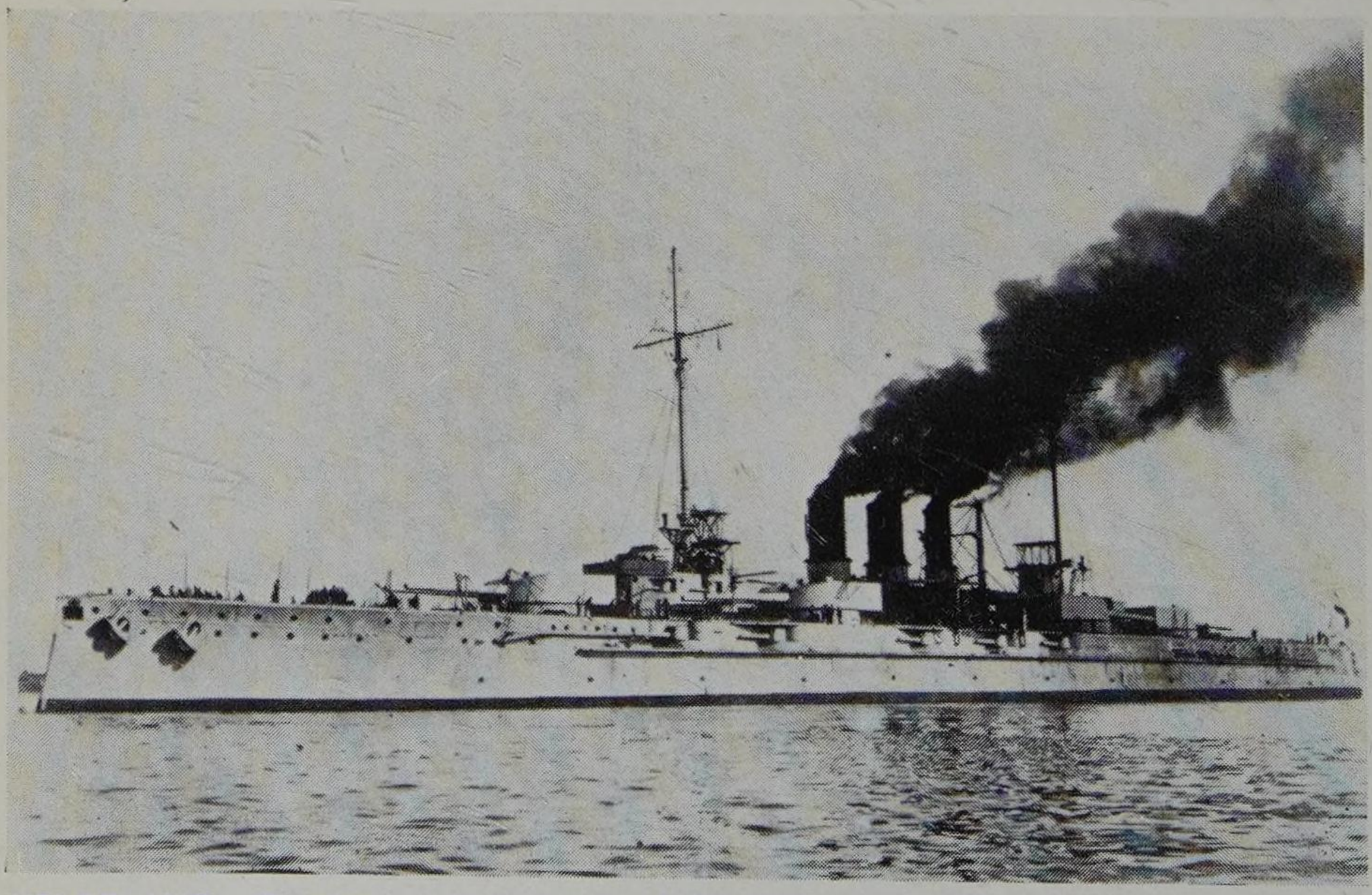
POSEN: 31.5.16 Jutland, 5.11.19 stricken, 13.5.20 surrendered, allocated to U.K.

RHEINLAND: 31.5.16 Jutland, 11.4.18 damaged by stranding in Baltic, accommodation ship, Kiel, 5.11.19 stricken.

POSEN, without searchlights and flying the German merchant ensign. [*Imperial War Museum*



OLDENBURG. The only class of German Dreadnought with three funnels and also the first class to mount 12inch guns.
[*Imperial War Museum*



HELGOLAND. The simple superstructure of this class is very evident.
[*Imperial War Museum*

Helgoland class

Displacement: 22,800 tons.
Dimensions: 546 ft. × 93½ ft. × 27½ ft.
Machinery: 3-shaft Reciprocating (VTE) engines, I.H.P. 31/35,000 = 21 knots. Coal/oil fired.
Protection: Main belt 4 in. (ends), 11¾ in. (amid.), decks 3 in., turrets 11 in., C.T. 12 in.
Armament: 12-12 in. (6 × 2), 14-5·9 in. (14 × 1), 14-3·4 in. (14 × 1) guns: 6-20 in. (1 bow, 4 beam, 1 stern) T.T., all submerged.
Complement: 1,100.

HELGOLAND	Howaldtswerke, Kiel	25. 9.09	1924 scrapped, Morecambe.
THURINGEN	A. G. Weser, Bremen	27.11.09	1922 scrapped, Lorient.
OSTFRIESLAND	Wilhelmshaven D.Y.	30. 9.09	21.7.21 sunk by U.S. aerial bombing off Cape Henry, U.S.A.
OLDENBURG	Schichau, Danzig.	30. 6.10	1921 scrapped, Dordrecht.

Notes: All completed 1911-12. Less cramped than WESTFALENS. The greater beam as opposed to contemporary British ships allowed wing turrets to be placed well inboard, allowing greater protection of magazines, First German battleships to carry 12 in. guns firing 980 pound shell as against 760 pounds of 11 in. gun. From 1915/17 3·4 in. guns removed and 4-3·4 in. A.A. guns substituted.

HELGOLAND: 31.5.16 Jutland, 5.11.19 stricken, 5.8.20 surrendered, to U.K. for experimental use.

THURINGEN: 31.5.16 Jutland, 5.11.19 stricken, 29.4.20 surrendered Cherbourg, to France as target ship.

OSTFRIESLAND: 31.5.16 Jutland, 5.11.19 stricken, 7.4.20 surrendered. to U.S.A. Used as target ship for aerial bombing and first battleship to be so sunk.

OLDENBURG: 31.5.16 Jutland, 5.11.19 stricken, 13.5.20 surrendered, allocated to Japan.

Kaiser class

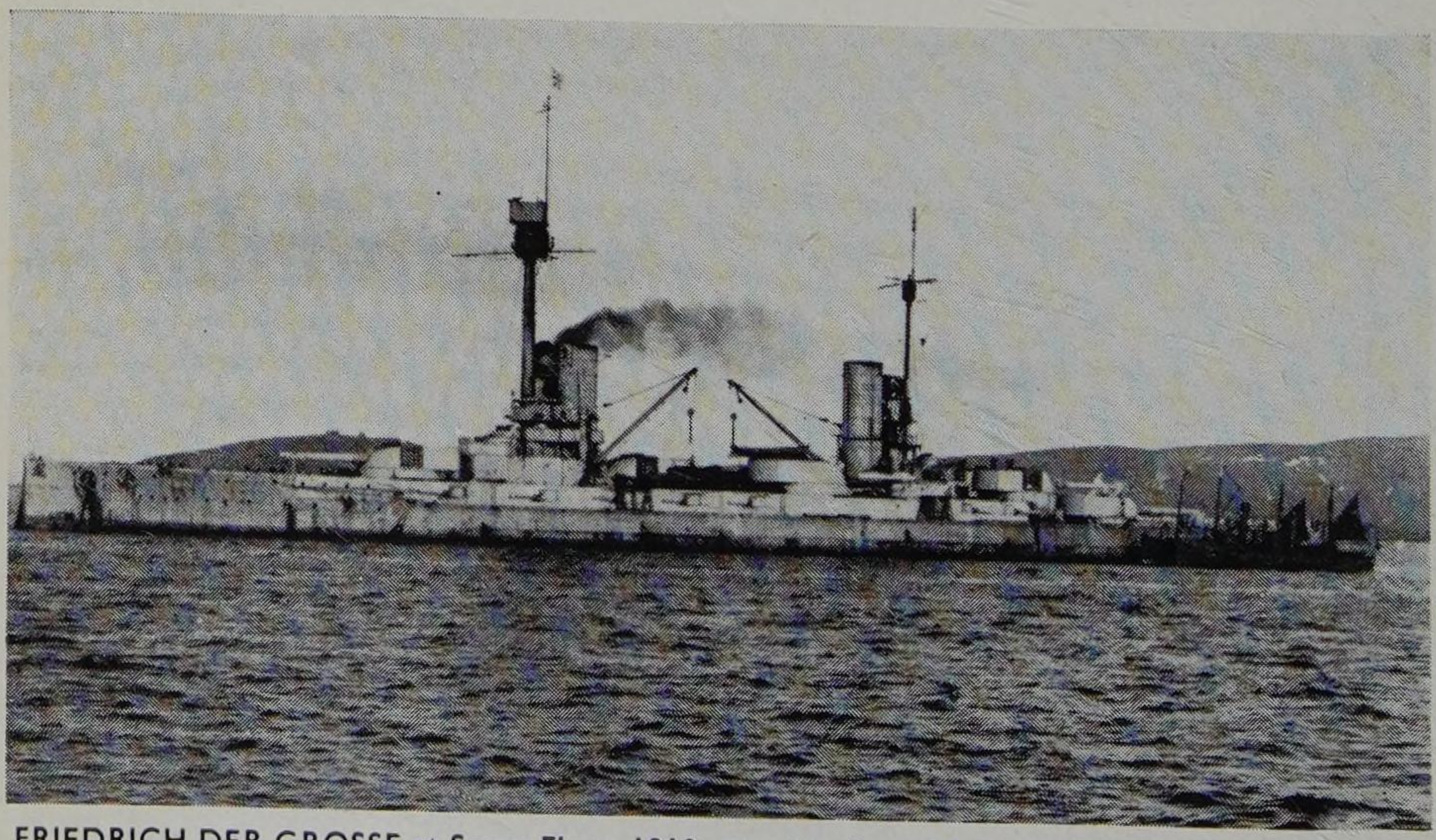
Displacement: 24,380 tons.
Dimensions: 564 ft. × 95¼ ft. × 27¼ ft.
Machinery: 3-shaft turbines, S.H.P. 30/35,000 = 21/23 knots. PRINZ REGENT LUITPOLD only 2-shaft geared turbines S.H.P. 26,000, 1-shaft diesel 12,000 B.H.P. Coal/oil fired.
Protection: Main belt 7¾ in. (ends), 13¾ in. (amid.), deck 3 in., turrets 11¾ in., C.T. 13¾ in.

Armament: 10-12 in. (5 × 2), 14-5·9 in. (14 × 1), 8-3·4 in. (8 × 1), 4-3·4 in. A.A. (4 × 1) Guns, 5-20 in. (1 bow, 4 beam) T.T., all submerged.

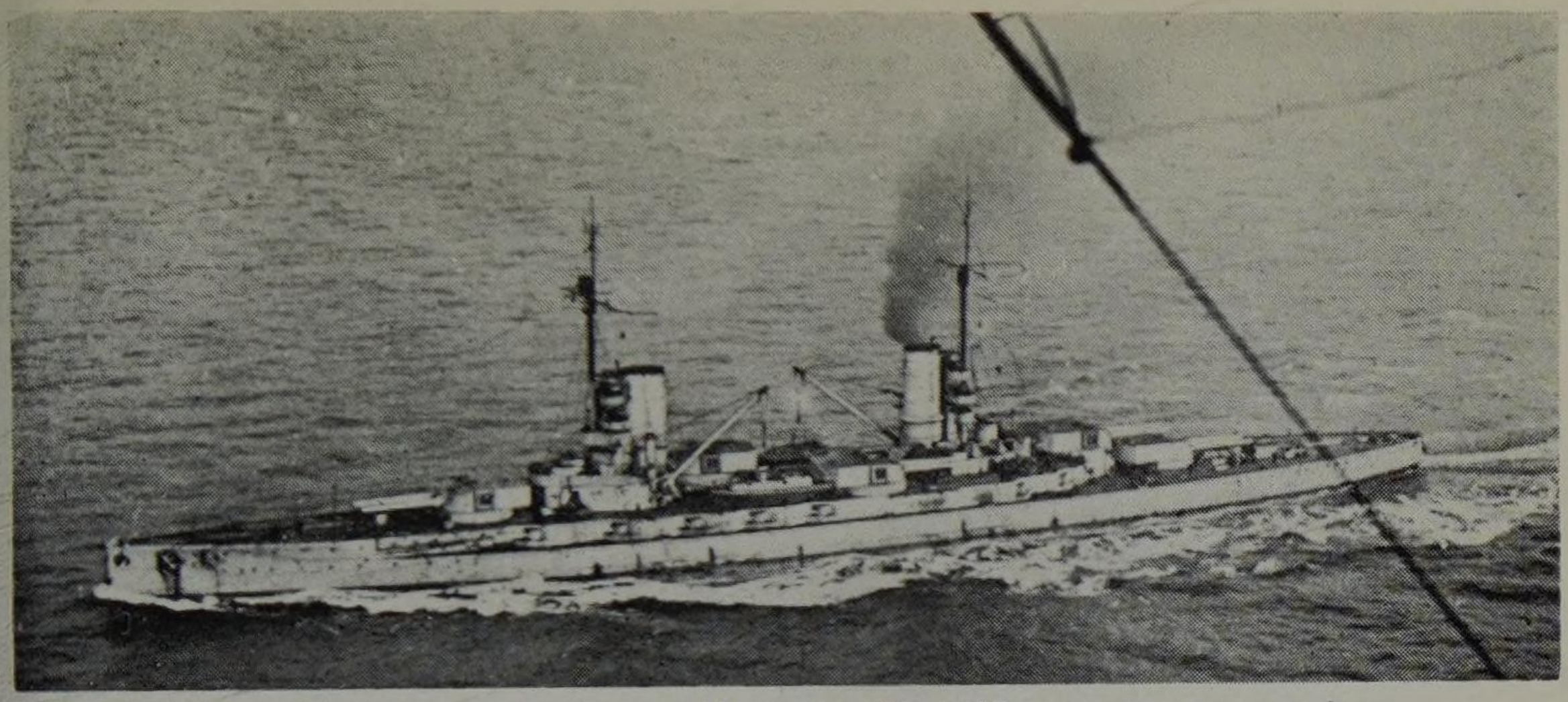
Complement: 1,088.

KAISER	Kiel D.Y.	22. 3.11	21.6.19 scuttled, Scapa Flow, 20.3.29 raised, 1930 scrapped, Rosyth.
FRIEDRICH DER GROSSE	A. G. Vulcan, Hamburg.	10. 6.11	21.6.19 scuttled, Scapa Flow, 1936 raised, scrapped Scapa.
KAISERIN	Howaldtswerke, Kiel.	11.11.11	21.6.19 scuttled, Scapa Flow, 14.5.36 raised, scrapped Rosyth.
PRINZ REGENT LUITPOLD	Germaniawerft, Kiel.	17. 2.12	21.6.19 scuttled, Scapa Flow, 9.7.31 raised, scrapped Rosyth.
KÖNIG ALBERT	Schichau, Danzig.	27. 4.12	21.6.19 scuttled Scapa, Flow, 31.7.35 raised, scrapped Rosyth.

Notes: All completed 1912/13. First German battleships with superimposed turrets and turbines. KAISER on trials attained 23·6 knots. All extremely well protected and subdivided. FRIEDRICH DER GROSSE given heavy foremast as KÖNIG class in 1914 and served as Fleet Flagship until completion of BADEN. All except KÖNIG ALBERT (refitting) at Jutland and all interned Scapa Flow 25.11.18.



FRIEDRICH DER GROSSE at Scapa Flow, 1919, wearing flag of Admiral von Reuter. The heavy foremast marks her from the rest of her class. [*P. A. Vicary*



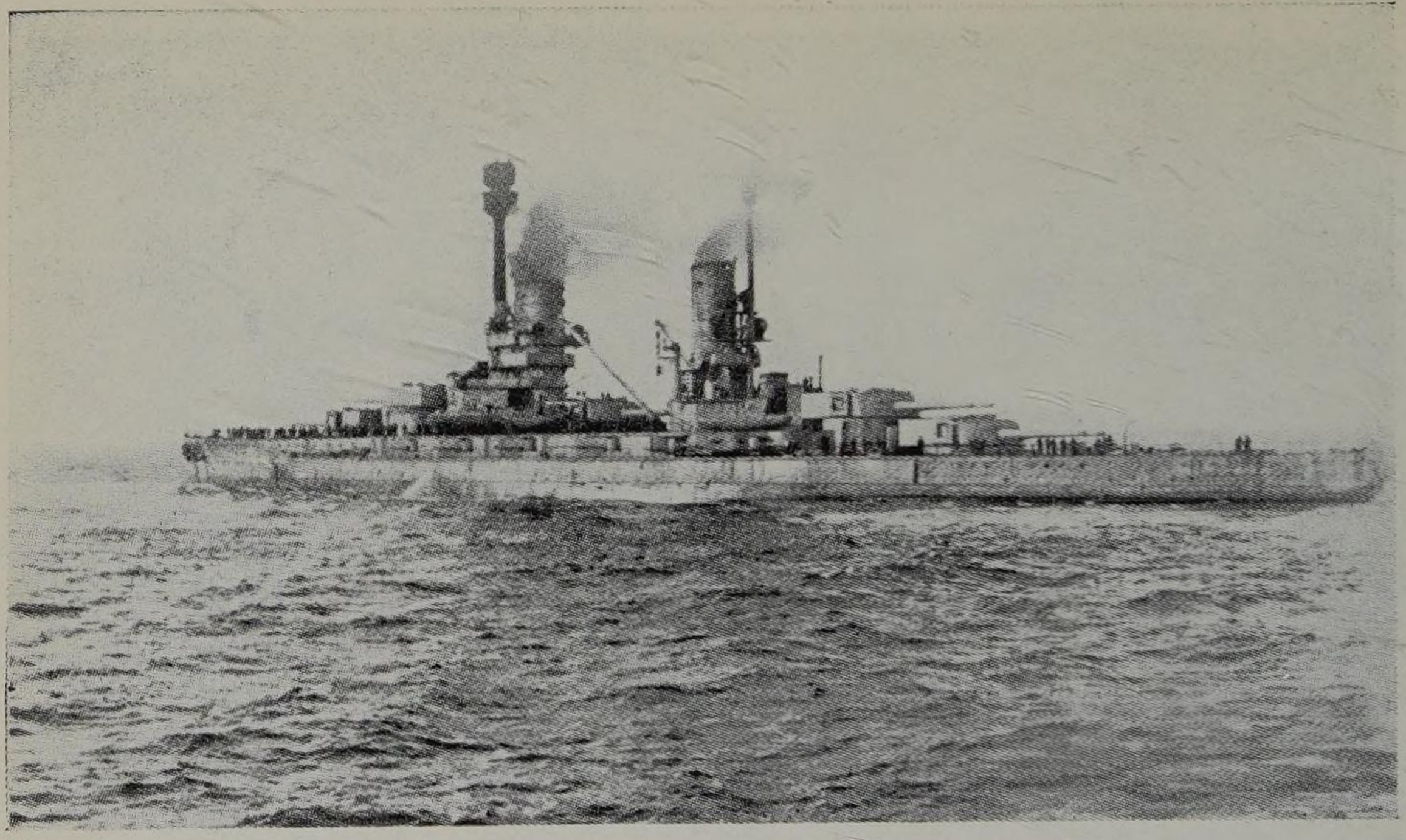
KAISER. An aerial photograph taken on November 21, 1918 en route to surrender.
[*Imperial War Museum*

Konig class

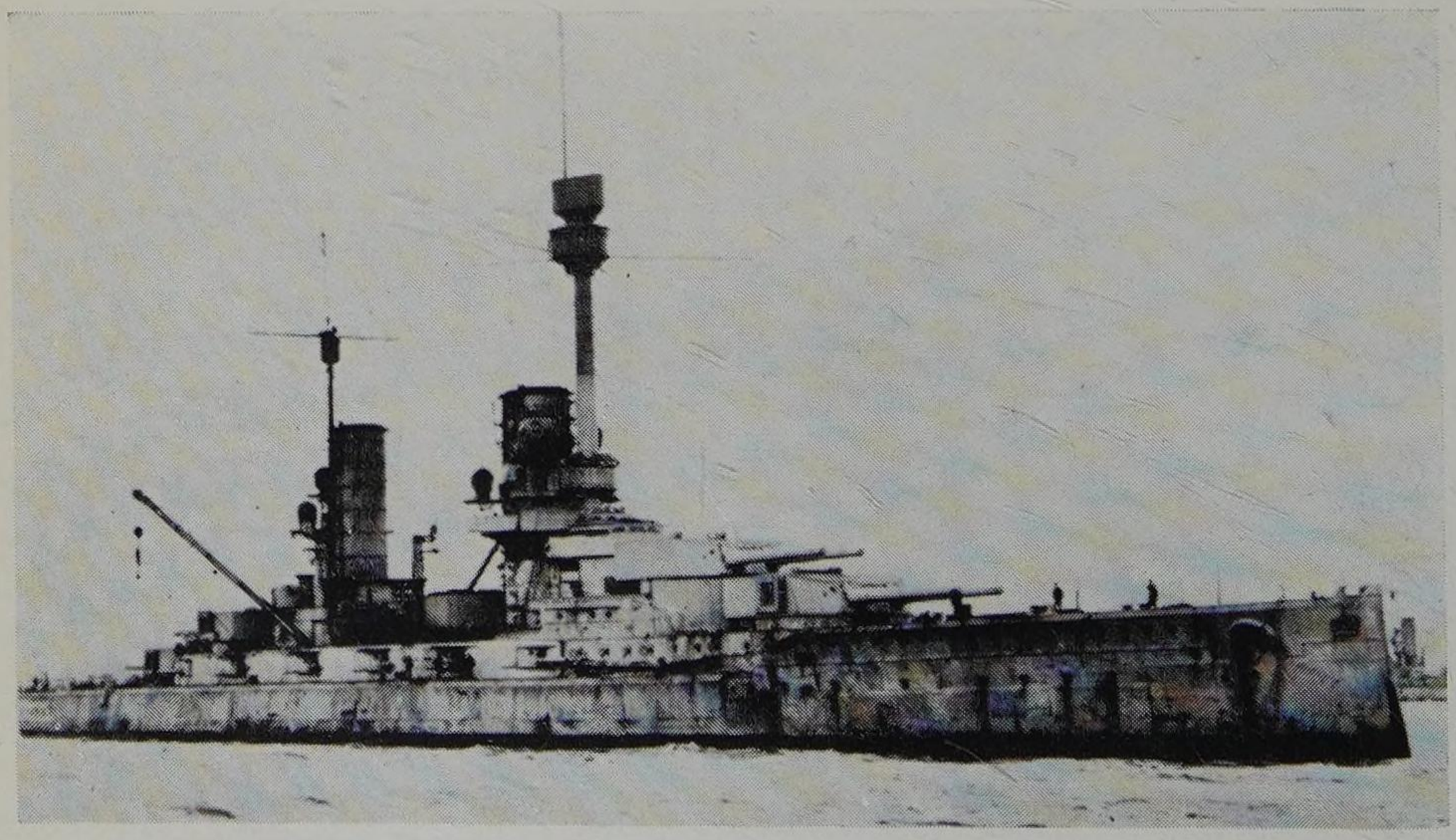
Displacement: 25,390 tons.
Dimensions: 580 ft. × 97 ft. × 28½ ft.
Machinery: 3-shaft turbines, S.H.P. 31/35,000 = 21/23 knots. Coal/oil fired.
Protection: Main belt 10 in. (ends), 14 in. (amid.), deck 4½ in., turrets 14 in., C.T. 14 in.
Armament: 10-12 in. (5 × 2), 14-5·9 in. (14 × 1), 8-3·4 in. (8 × 1), 4-3·4 in. A.A. (4 × 1) guns: 5-20 in. (1 bow, 4 beam) T.T., all submerged.
Complement: 1,150.

KÖNIG	Wilhelmshaven D.Y.	1. 3.13	21.6.19 scuttled, Scapa Flow, 1962 wreck broken up.
MARKGRAF	A. G. Weser, Bremen.	4. 6.13	21.6.19 scuttled, Scapa Flow, 1937 raised, scrapped Rosyth.
GROSSER KURFÜRST	A. G. Vulcan, Hamburg.	5. 5.13	21.6.19 scuttled, Scapa Flow, 1936 raised, scrapped Rosyth.
KRONPRINZ WILHELM (ex-Kronprinz)	Germaniawerft Kiel.	21. 2.14	21.6.19 scuttled, Scapa Flow, 1938 raised, scrapped Rosyth.

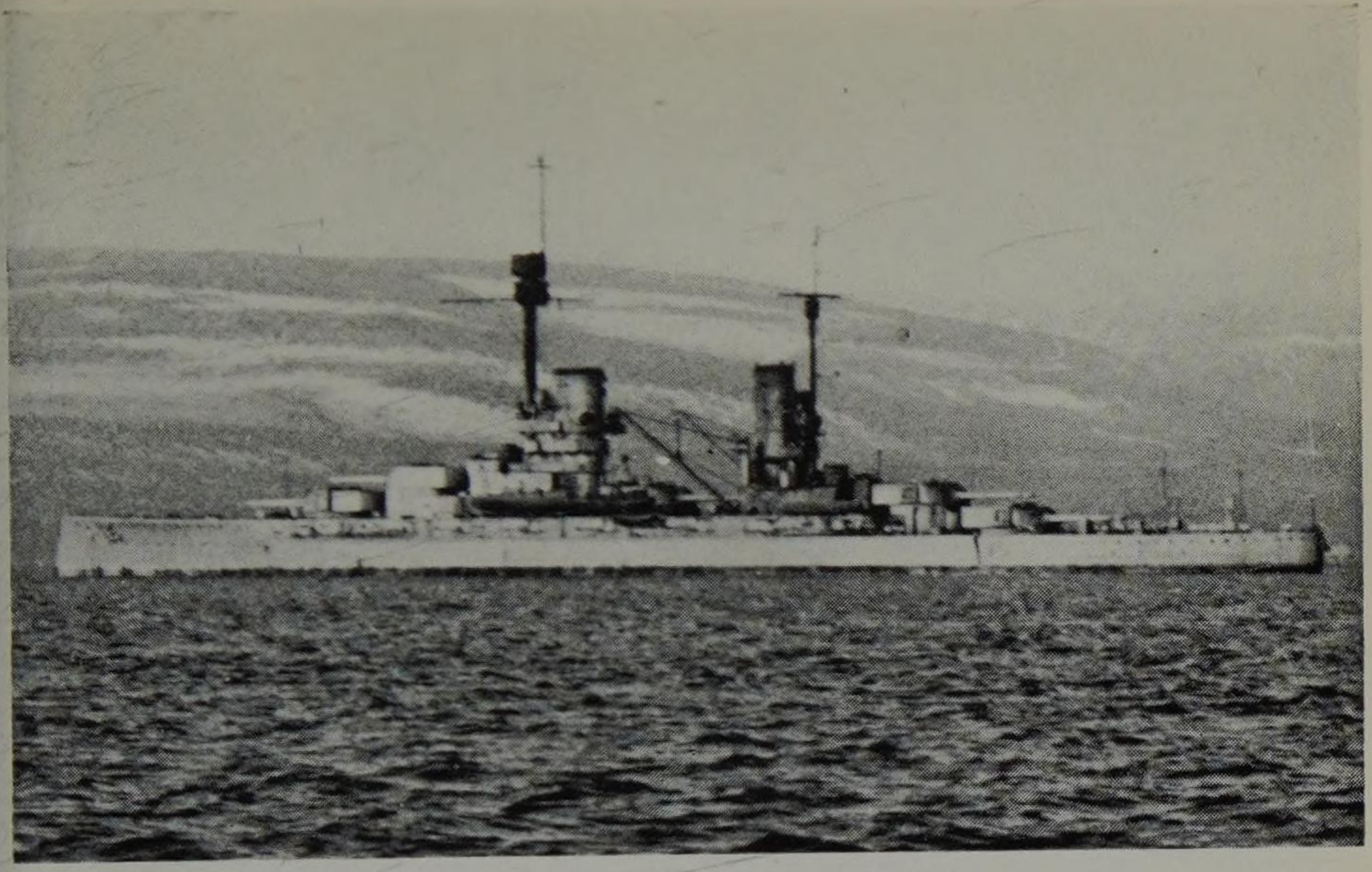
Notes: Completed 1914/15. First German battleships with all turrets on centre line. Far better protection than any contemporary British battleship and greater beam allowed for better underwater protection. All at Jutland and, excepting KÖNIG interned Scapa Flow 26.11.18. KÖNIG not ready to sail with rest of Fleet and arrived 6.12.18 with DRESDEN. KRONPRINZ renamed 27.1.18 by order of Kaiser.



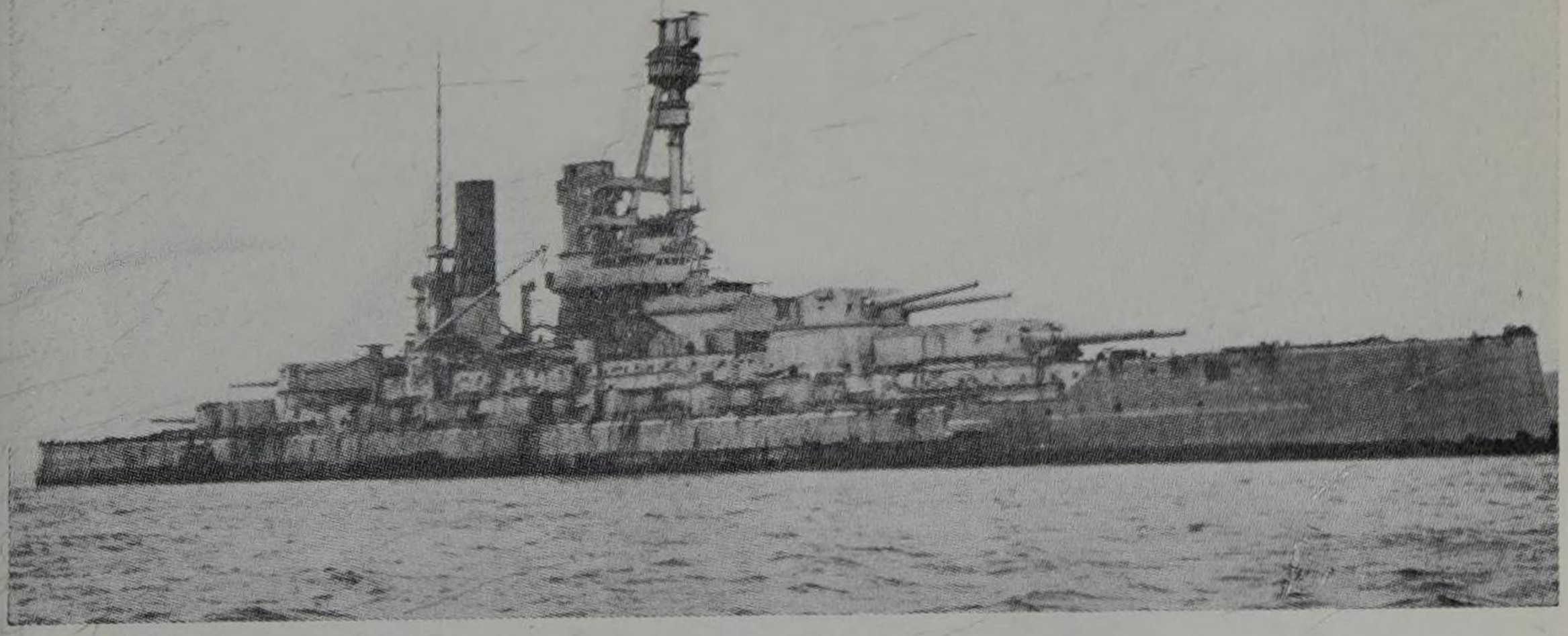
MARKGRAF, of the KÖNIG class at sea.



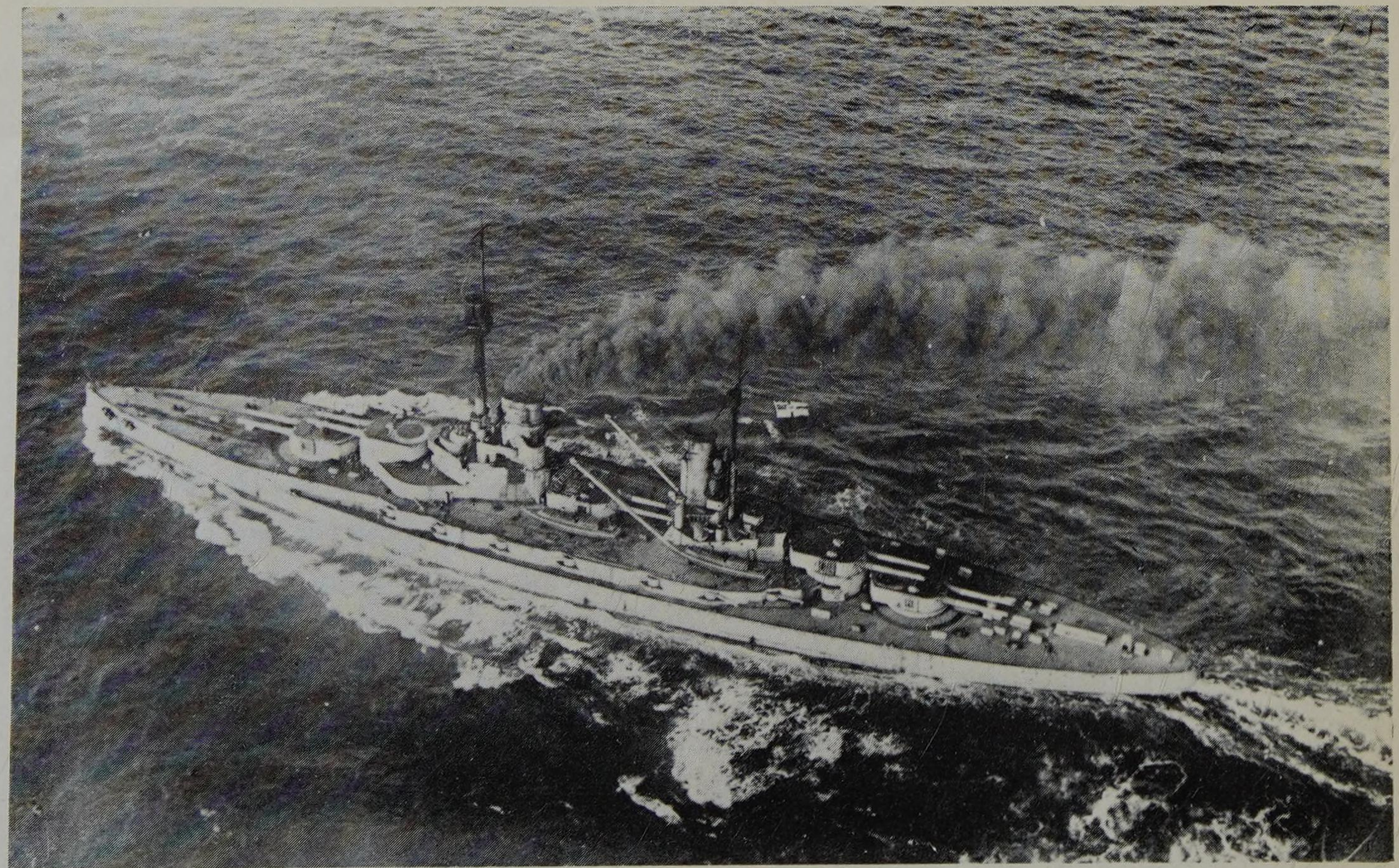
KONIG at Scapa Flow, 1919. All this class had centre line turrets and heavy foremasts.
[*P. A. Vicary*



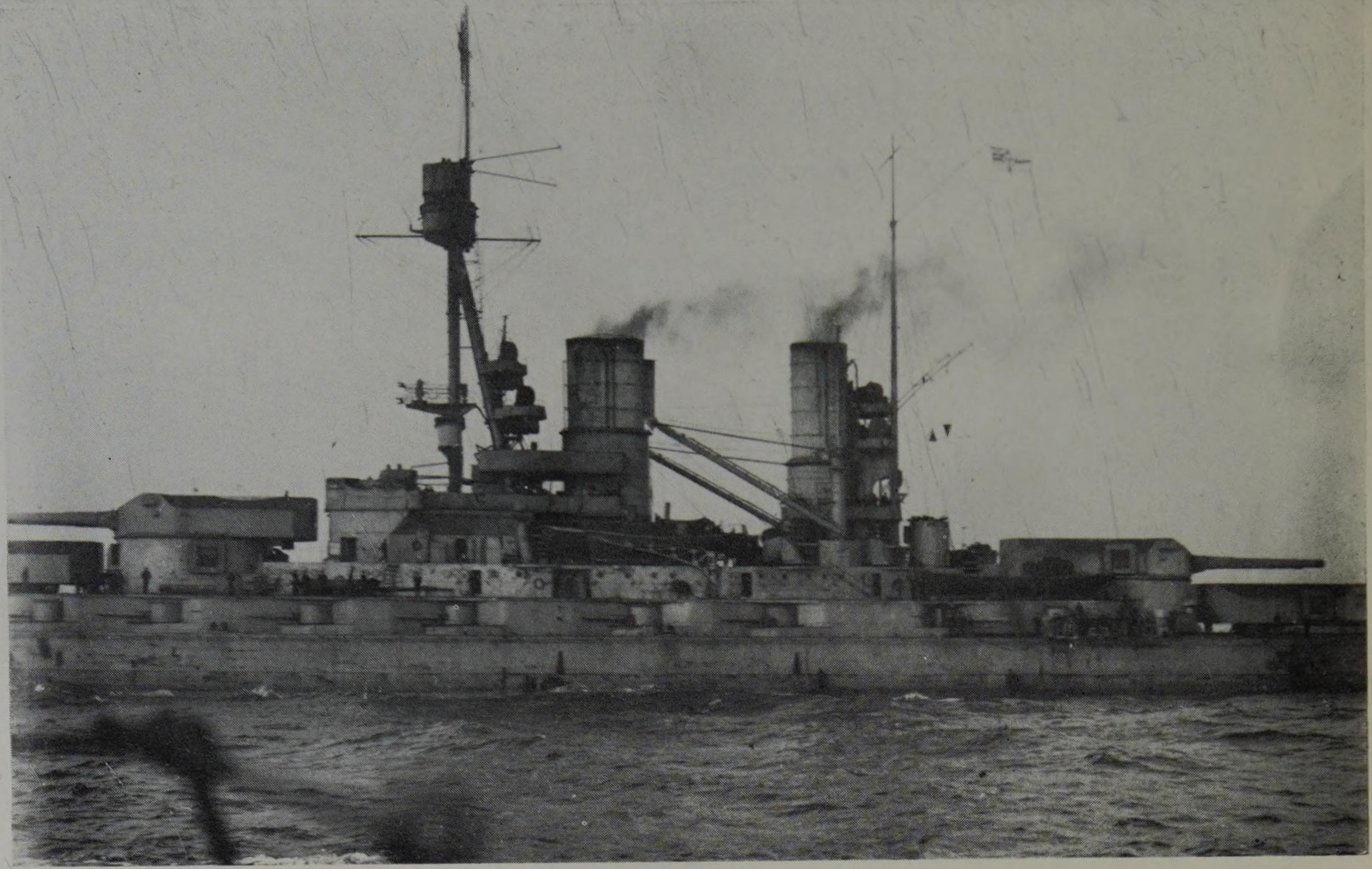
KRONPRINZ WILHELM, ex-KRONPRINZ, at Scapa Flow 1918. [*P. A. Vicary*



BADEN at Scapa, 1918. The last German battleship to be completed.



An aerial photograph of GROSSER KURFURST taken at surrender on Novembor, 21 1918. Note light coloured circular aircraft recognition markings on turrets.
[*Imperial War Museum*



BAYERN at sea, giving a good detail of the superstructure of the last class of German battleships. [*Imperial War Museum*

Baden class

Displacement: 28,075 tons.
Dimensions: 623 ft. × 99 ft × 27¾ ft..
Machinery: 3-shaft turbines, S.H.P. 52,000 = 22¼ knots. Coal/oil fired.
Protection: Main belt 6 in. (ends), 13¾ in. (amid.), deck 4¾ in., turrets 13¾ in., C.T. 13¾ in.
Armament: 8-15 in. (4 × 2), 16-5·9 in. (16 × 1), 4-3·4 in. (4 × 1) A.A. guns. 5-24 in. (1 bow, 4 beam) T.T., all submerged.
Complement: 1,200.

BADEN	Schichau, Danzig.	30.10.15	16.8.21 sunk by R.N. as gunnery target off Portsmouth.
BAYERN	Howaldtswerke Kiel.	18. 2.15	21.6.19 scuttled, Scapa Flow, 9/34 raised, 1935 scrapped Rosyth.
WÜRTTEMBERG	A. G. Vulcan, Hamburg	20. 6.17	1917 Work suspended, 3/11/19 stricken, 1920/21 broken up.
SACHSEN	Germaniawerft Kiel	21.11.16	,, ,,

Notes: BADEN and BAYERN completed 1916. Laid down as reply to QUEEN ELIZABETH class. First German battleships to carry 15 in., guns, firing shell weighing 1,653 pounds. Only German battleships to have tripod masts. Modified KÖNIG with central barbette suppressed and position of after boiler room and engine rooms transposed.

BADEN: Fleet Flagship from 19.10.16, replacing FRIEDRICH DER GROSSE, Not originally one of ships scheduled to be surrendered but was substituted for MACKENSEN which was not ready, and which in fact, was never completed. 14.12.18 Interned Scapa Flow, 21.6.19 scuttled, towed ashore and beached. 7/19 salved.

BAYERN: Interned Scapa Flow 26.11.18.

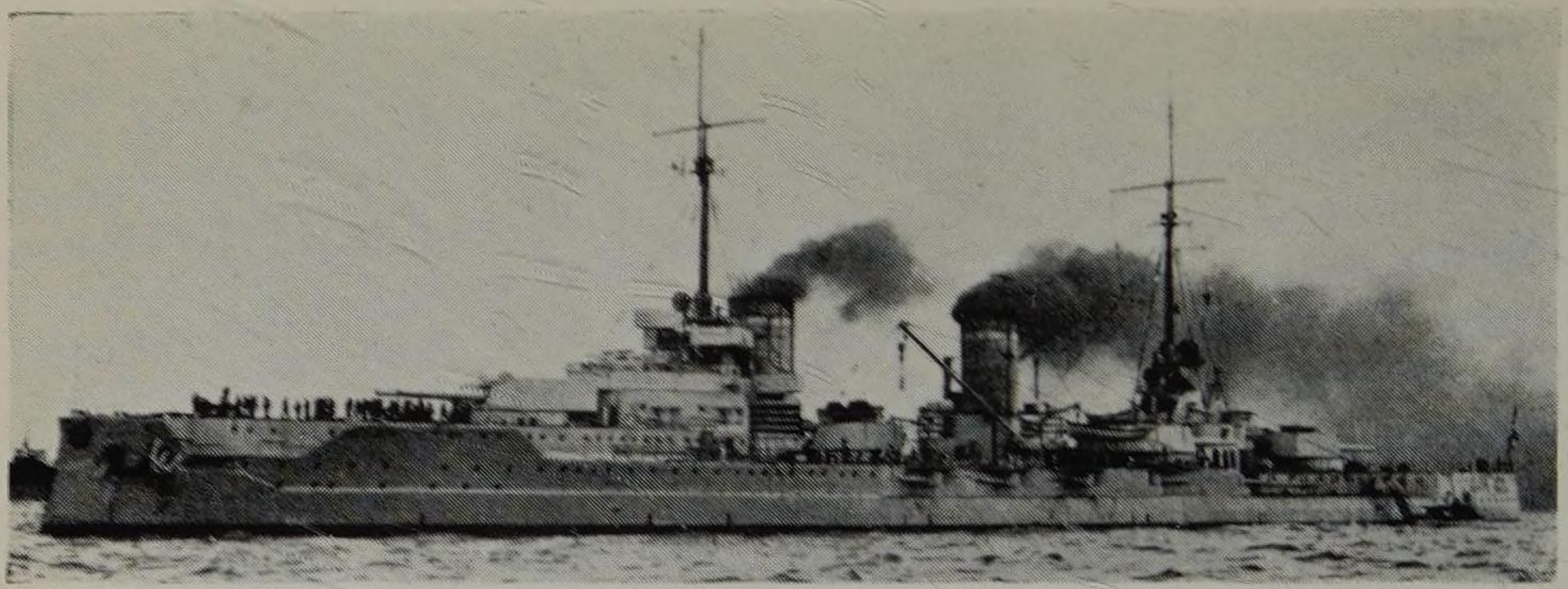
BATTLECRUISERS

Von Der Tann

Displacement: 19,400 tons,
Dimensions: 562¾ ft. × 87 ft. × 27½ ft.
Machinery: 4-shaft turbines, S.H.P. 43,600/80,000 = 28 knots. Coal fired.
Protection: Main belt 9½ in., deck 2½ in., turrets 9 in.
Armament: 8-11 in. (4 × 2), 10-5·9 in. (10 × 1), 16-3·4 in. (16 × 1) guns. 4-18 in. (1 bow, 2 beam, 1 stern) T.T., all submerged.
Complement: 910.

Salvage operations under way on BADEN.

[*P. A. Vicary*



A 1911 photograph of VON DER TANN, the first German Battlecruiser. [*P. A. Vicary*

VON DER TANN	Blohm & Voss, Hamburg	20.3.09	21.6.19 scuttled, Scapa Flow, 7.12.30 raised, 1934 scrapped Rosyth.

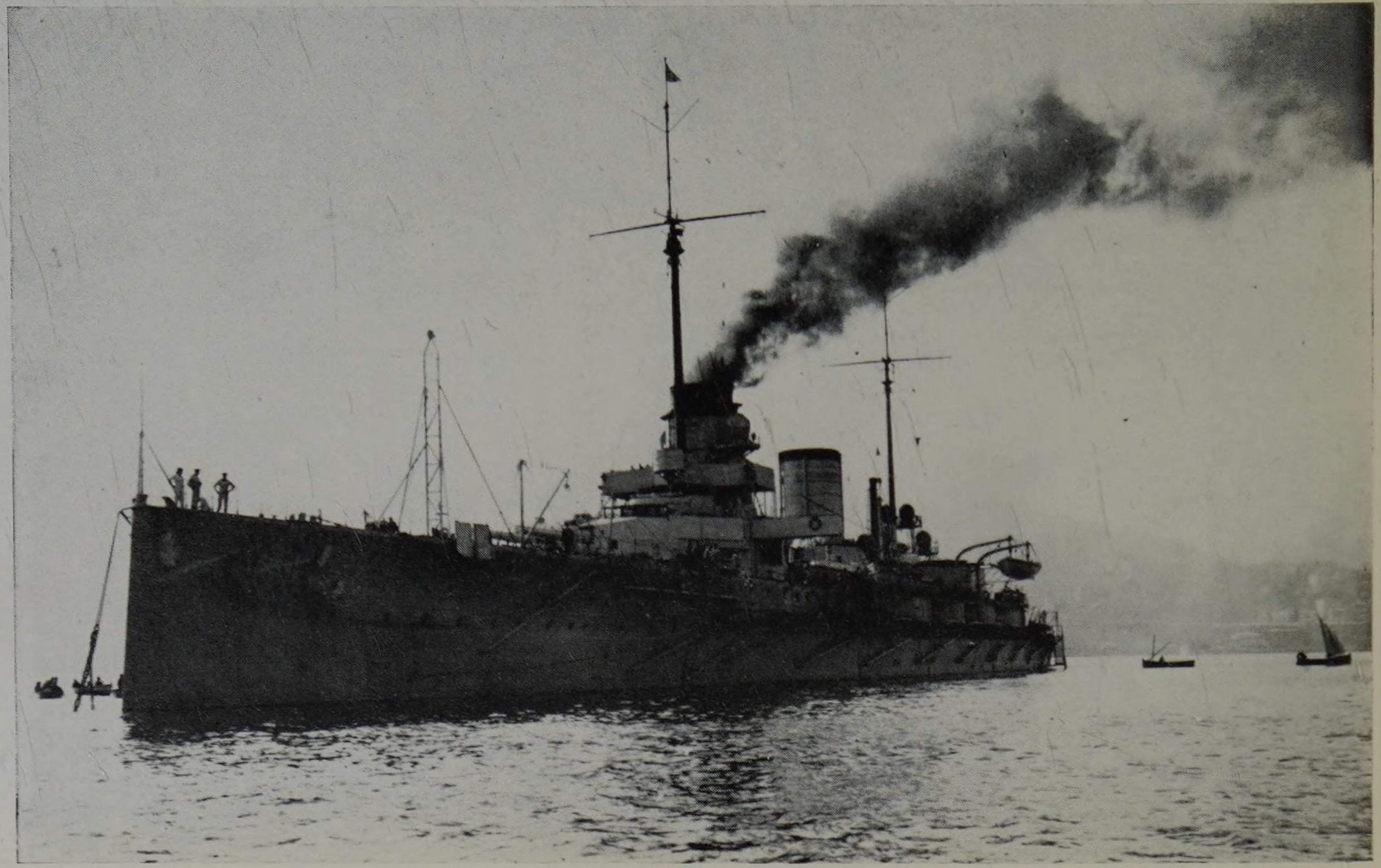
Notes: Completed 1910, the first German Battlecruiser, also first large German ship with turbines and quadruple screws. In 1916 3·4 in. guns removed and 4—3·4 in. A.A. guns substituted. Completed in less than two years, the shortest time of any German capital ship. Considerably better protected than any contemporary British battlecruiser. All turrets could bear on a very wide arc. Designed for 24 knots with 43,000 S.H.P. on trials made 27¾ knots with 79,800 S.H.P. and touched 27·6 knots at Jutland. 31.5.16 Jutland, 24.11.18 interned Scapa Flow.

Moltke class

Displacement: 22,640 tons.
Dimensions: 610 ft. × 96¾ ft. × 27 ft.
Machinery: 4-shaft turbines, S.H.P. 70/80,000 = 27/28½ knots. Coal fired.
Protection: Main belt 4 in. (ends), 11 in. (amid), deck 2½ in., turrets 10 in., C.T. 10 in.
Armament: 10-11 in. (5 × 2), 12-5·9 in. (12 × 1) GOEBEN from 1915 10-5·9 in. (10 × 1), 12-3·4 in. (12 × 1) guns. 4-20 in. (1 bow, 2 beam, 1 stern) T.T., all submerged.
Complement: 1,107

MOLTKE	Blohm & Voss, Hamburg	4.7.10	21.6.19 scuttled, Scapa Flow, 1927 raised, scrapped Rosyth.
GOEBEN	Blohm & Voss, Hamburg	28.3.11	1960 paid off, 1968 still awaiting disposal.

Notes: Completed 1911 and 1912. Enlarged VON DER TANNS with practically battleship protection. Same turret arrangement as KAISER



GOEBEN, still in existence (1968) as the Turkish YAVUZ. [*Major Aldo Fraccaroli*

battleships. MOLTKE attained speed of 28·4 knots on trials. Low freeboard caused forecastle to become awash in anything approaching a heavy sea. GOEBEN only German capital ship to serve outside High Seas Fleet, being in Mediterranean at outbreak of war. In 1916 3·4 in., guns removed and 4-3·4 in. A.A. guns substituted.

MOLTKE: 24.1.15 Dogger Bank, 31.5.16 Jutland, 24.11.18 interned Scapa Flow.

GOEBEN: from 1912 on foreign service with BRESLAU, 16/8/14 to Turkey as JAWUZ SULTAN SELIM, 1936 YAVUZ.

Another photograph of GOEBEN, the only German capital ship to serve outside the High Seas Fleet during the war. [*P. A. Vicary*

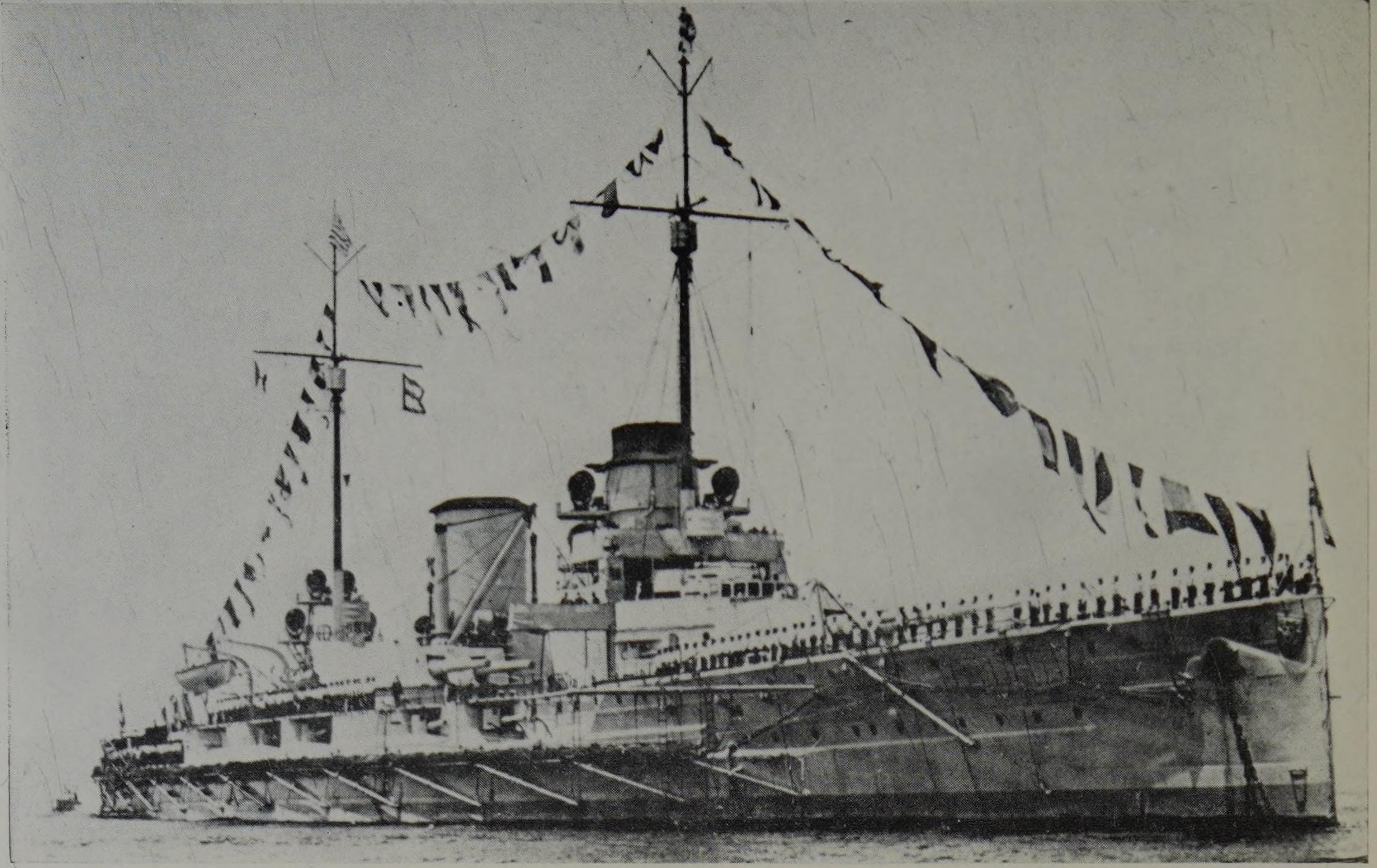
Seydlitz

Displacement: 24,610 tons.
Dimensions: 656 ft. × 93½ ft. × 27 ft.
Machinery: 4-shaft turbines, S.H.P. 89,700 = 27/30 knots. Coal fired.
Protection: Main belt 4 in. (ends), 11 in. (amid.), deck 2½ in., turrets 10 in., C.T. 10 in.
Armament: 10—11 in. (5 × 2), 12—5·9 in. (12 × 1), 12—3·4 in. (12 × 1) guns; 4—20 in. (1 bow, 2 beam, 1 stern) T.T., all submerged.
Complement: 1,108.

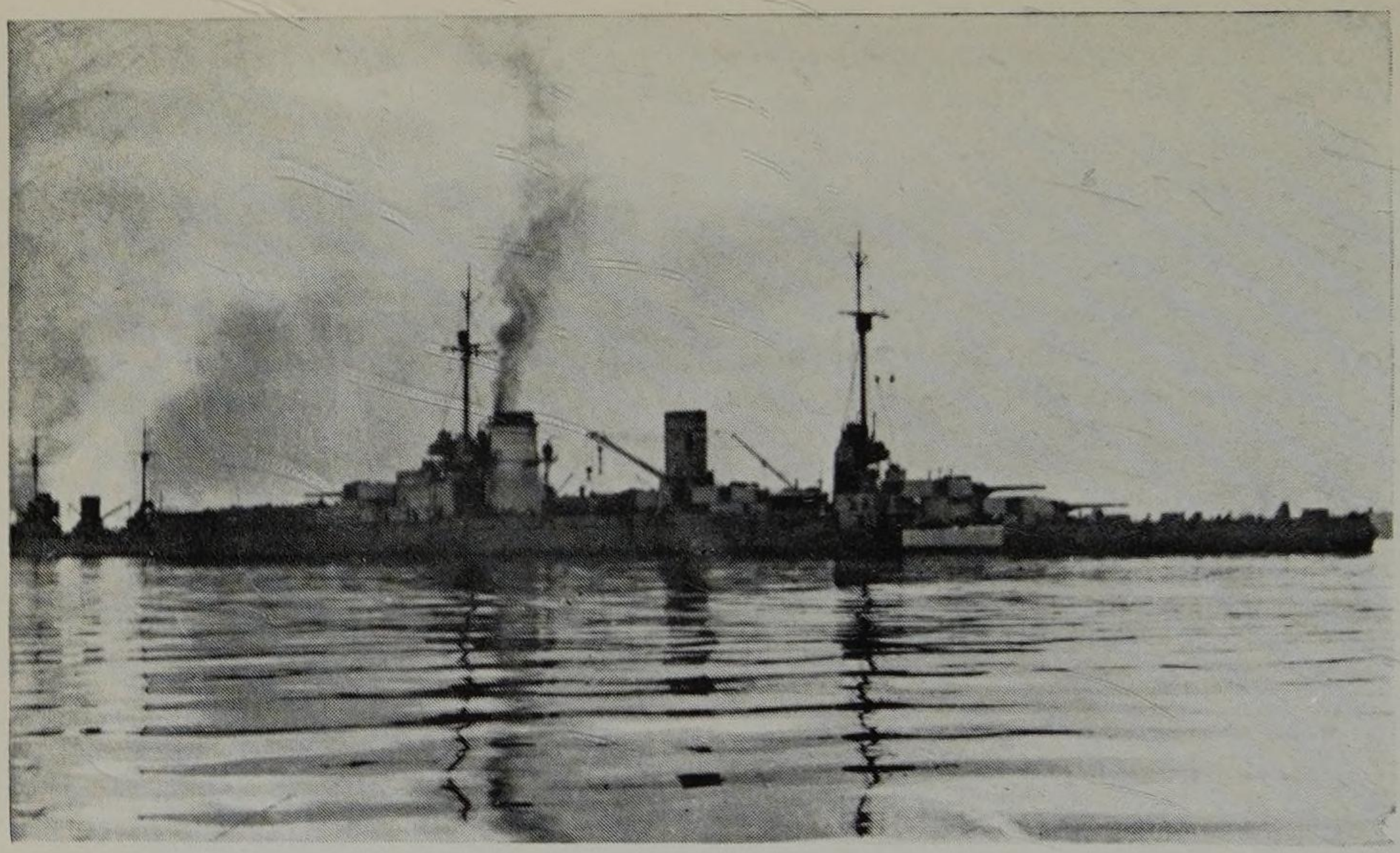
SEYDLITZ	Blohm & Voss, Hamburg	30.3.12	21.6.19 scuttled, Scapa Flow, 2.11.28 raised, scrapped Rosyth.

Notes: Completed 1913. Flagship of High Seas Fleet Scouting Forces. An excellent sea boat Fitted with special gear for rapid coaling with numerous well placed bunker hatches. At Jutland suffered more hits than any other surviving capital ship, reaching harbour with forecastle awash. Basically an enlarged MOLTKE with higher freeboard.

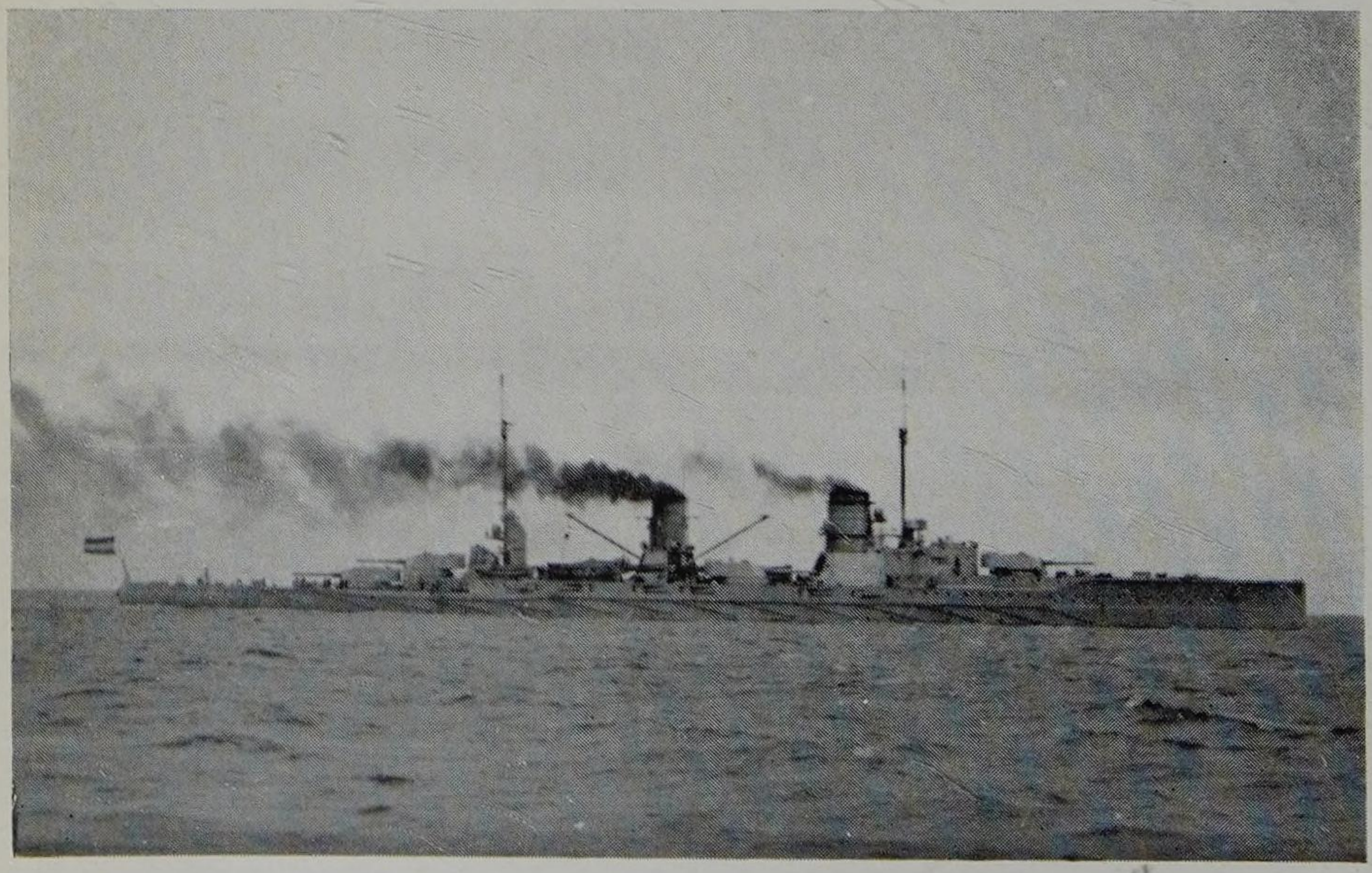
In 1916 3·4 in. guns removed and 4—3·4 in A.A. guns substituted.
24.1.15 Dogger Bank, 31.5.16 Jutland, 24.11.18 interned Scapa Flow.



The battlecruiser MOLTKE, always regarded as being a lucky ship. [*P. A. Vicary*



SEYDLITZ, with MOLTKE behind, at Scapa Flow 1918. [*P. A. Vicary*



A broadside view of SEYDLITZ at sea.

Derfflinger class

Displacement: 26,180 tons.
Dimensions: 689 ft. × 95 ft. × 27½ ft.
Machinery: 4-shaft turbines, S.H.P. 85,000 = 27/28 knots. Coal/oil fired.
Protection: Main belt 5 in. (ends), 12 in. (amid.), deck 2½ in., turrets 11 in., C.T. 11 in.
Armament: 8—12 in. (4 × 2), 12—5·9 in. (12 × 1) LÜTZOW and HINDENBURG 14—5·9 in. (14 × 1), 4—3·4 in. DERFFLINGER only, 8—3·4 in. A.A. (8 × 1) guns; 4—20 in. DERFFLINGER 4—24 in. LÜTZOW and HINDENBURG (1 bow, 2 beam, 1 stern) T.T., all submerged.
Complement: 1,215.

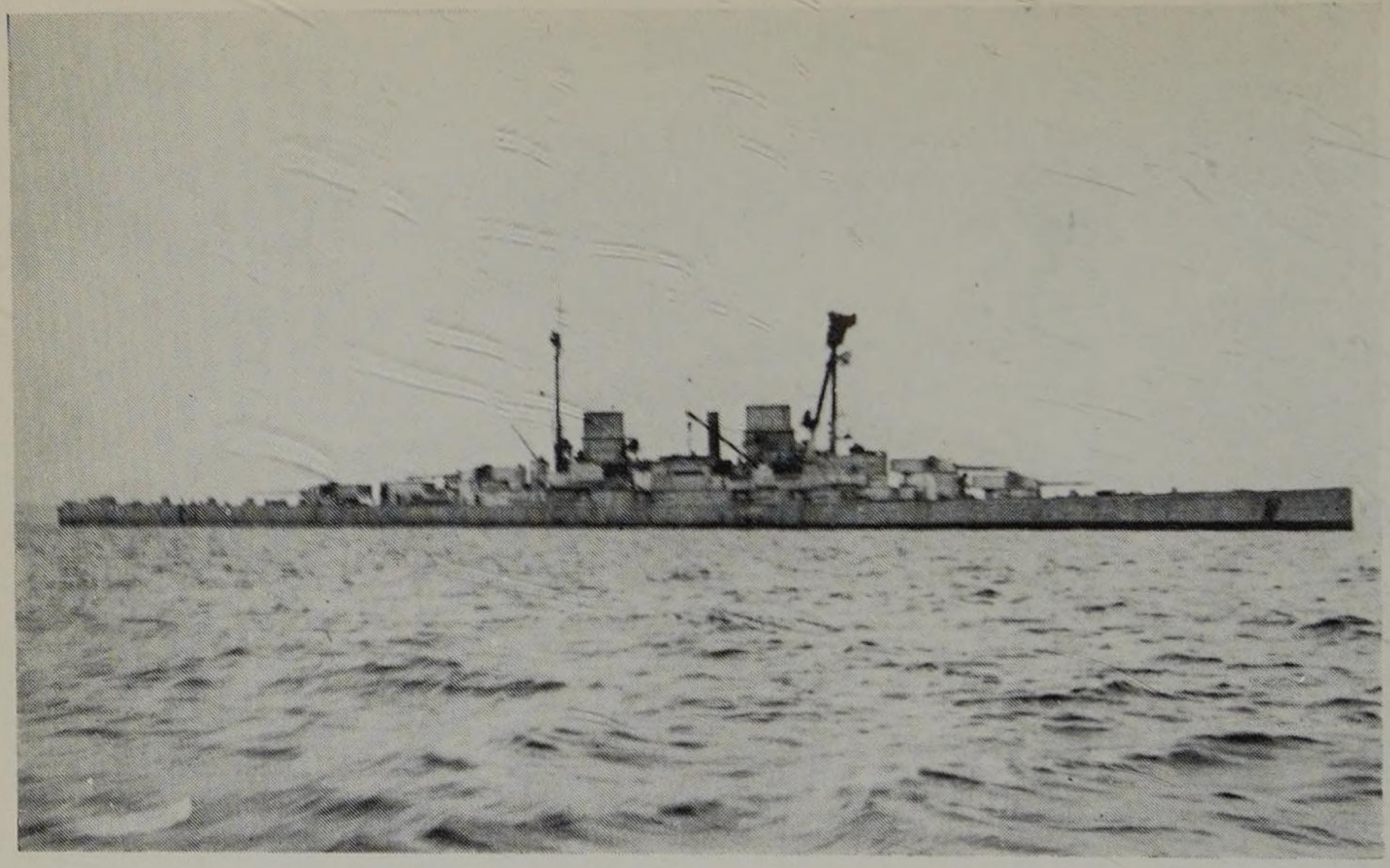
DERFFLINGER	Blohm & Voss, Hamburg	14. 6.13 and 12. 7.13	21.6.19 scuttled, Scapa Flow, 1934 raised, scrapped Rosyth.
LÜTZOW	Schichau, Danzig	29.11.13	1.6.16 Sunk, Jutland by torpedoes from German destroyer G38 after heavy damage.
HINDENBURG	Wilhelmshaven D.Y.	1. 8.15	21.6.19 scuttled Scapa Flow, 1930 raised, scrapped Rosyth.

Notes: Completed 1914/16. The only completed German battlecruisers to carry 12 in. guns, superimposed turrets and tripod masts, and to be flush decked. Probably the best all round capital ships of their time. Tripod masts were added 1916, (except LÜTZOW).

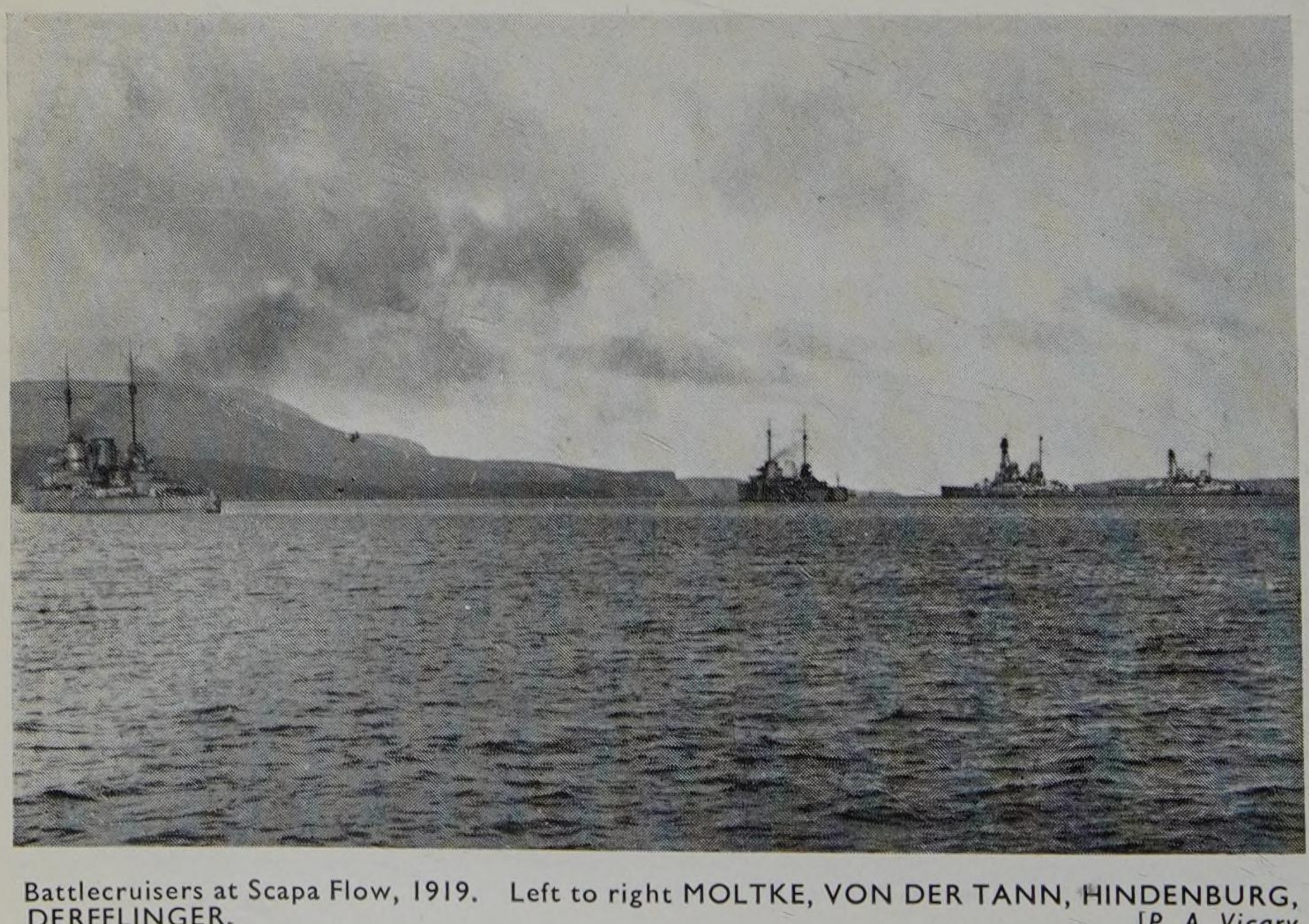
DERFFLINGER: first attempt at launch unsuccessful, 24.1.15 Dogger Bank, 31.5.16 Jutland, 24.11.18 interned Scapa Flow.

HINDENBURG: 24.11.18 interned Scapa Flow.

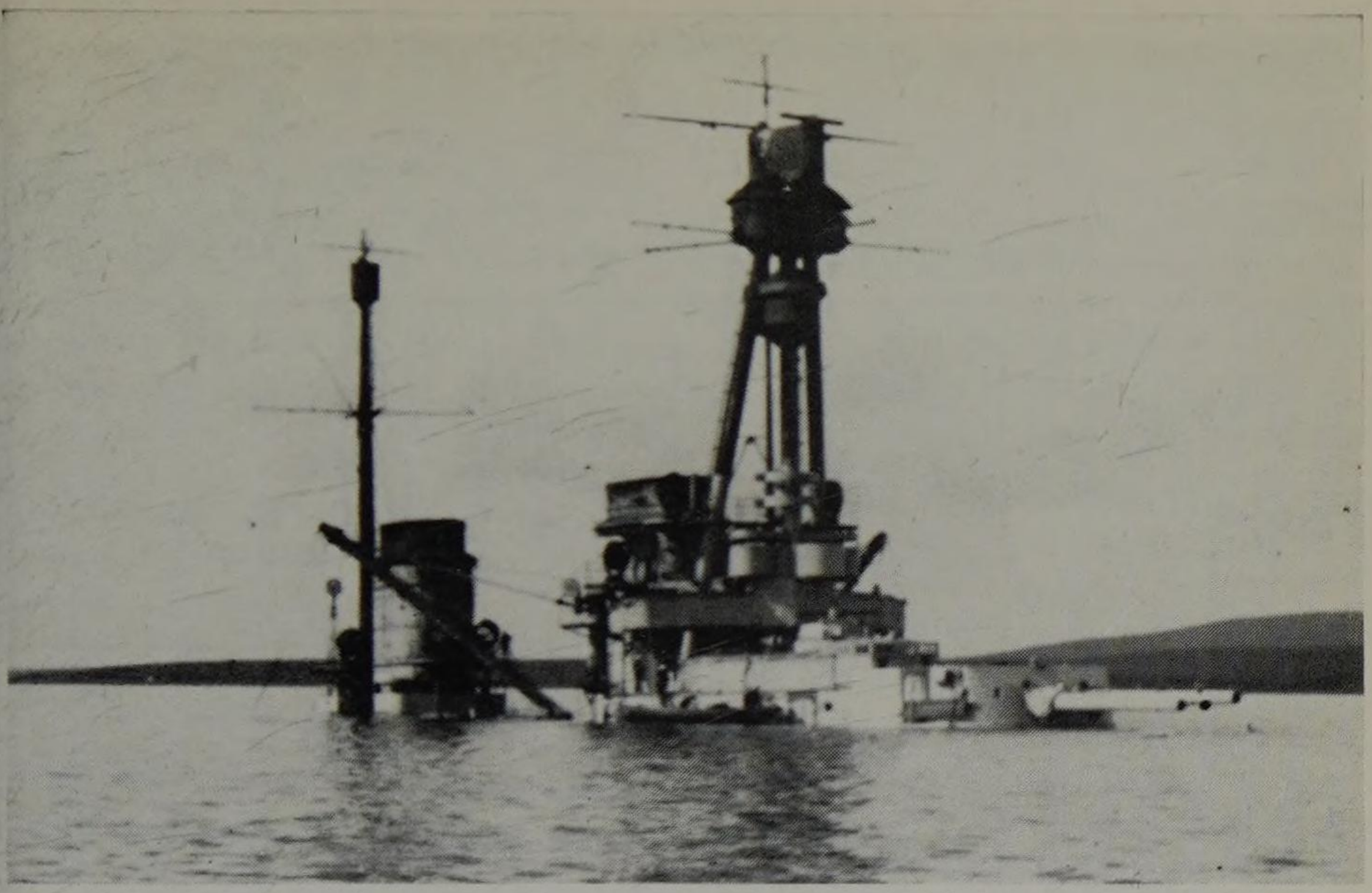
LUTZOW. The first German battlecruiser with all turrets on centre line: sunk at Jutland.
[P. A. Vicary



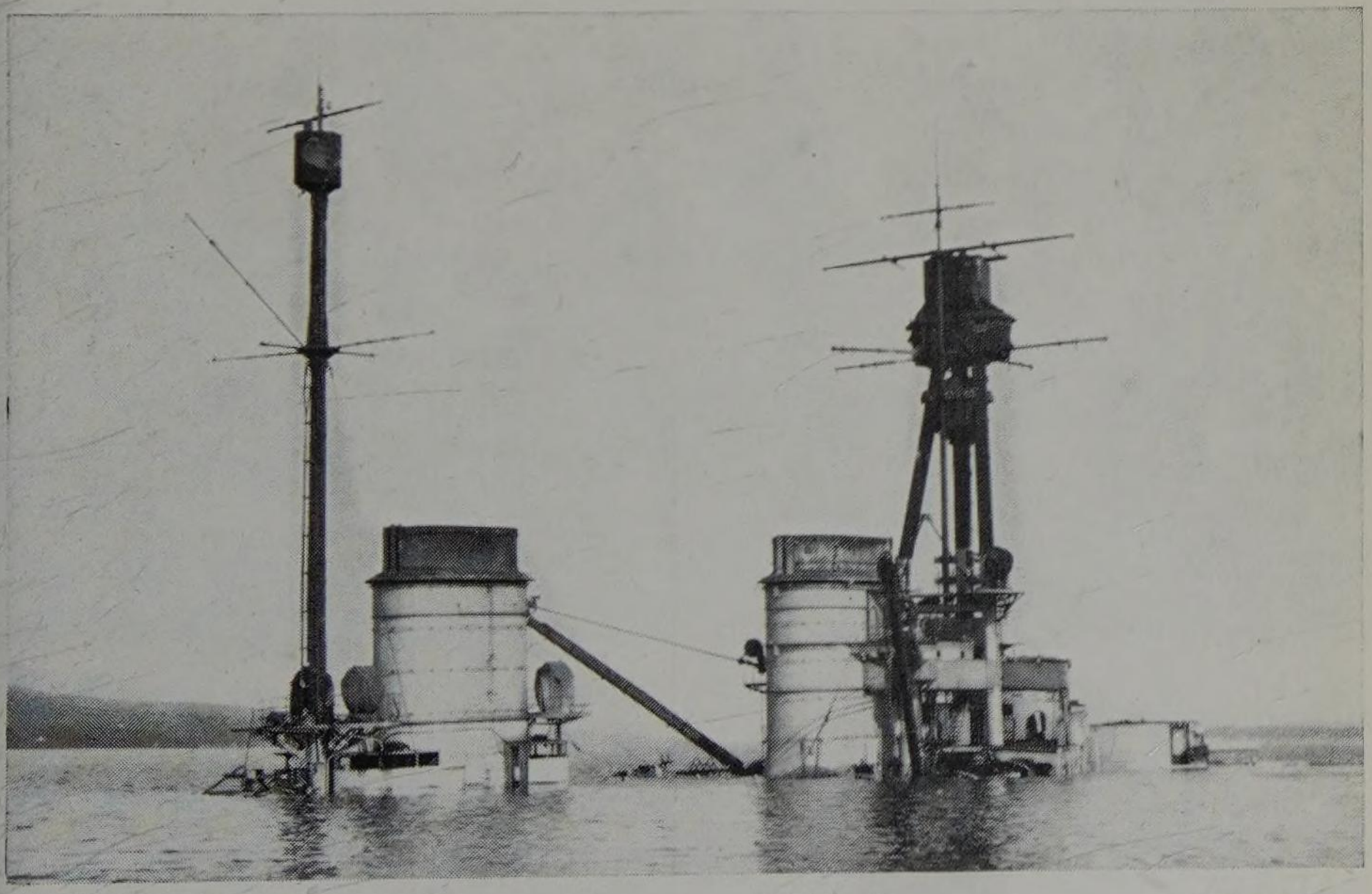
DERFFLINGER, showing tripod foremast. Probably the best class of all round capital ships of their time. [*Imperial War Museum*



Battlecruisers at Scapa Flow, 1919. Left to right MOLTKE, VON DER TANN, HINDENBURG, DERFFLINGER. [*P. A. Vicary*



HINDENBURG, scuttled at Scapa Flow, June 21, 1919. [*P. A. Vicary*



HINDENBURG, the final phase, Scapa Flow. [*P. A. Vicary*

Mackensen class

Displacement: 31,000 tons.
Dimensions: 731½ ft. × 99½ ft. × 30½ ft.
Machinery: 4-shaft turbines, S.H.P. 90,000 = 27 knots. Coal/oil fired.
Armament: 8—14 in. (4 × 2), 14—5·9 in. (14 × 1), 8—3·4 in. (8 × 1) A.A. guns: 5—24 in. (1 bow, 4 beam) T.T., all submerged.

MACKENSEN	Blohm & Voss, Hamburg	21.4.17	1917 Work suspended, 1922 broken up, Kiel.
GRAF SPEE	Schichau, Danzig.	15.9.17	,, ,, ,,
PRINZ EITEL FRIEDRICH	Blohm & Voss, Hamburg	—	1917 Work suspended, 1921 broken up on stocks.
FÜRST BISMARCK	Wilhelmshaven D.Y.	—	1917 Work suspended, 1922 broken up on stocks.

Notes: MACKENSEN originally scheduled to be surrendered, 1918, but not ready and BADEN substituted. Work suspended on all ships and freed resources used for submarine building.

PRE-DREADNOUGHT BATTLESHIPS AND ARMOURED COASTAL DEFENCE SHIPS

Siegfried class

Displacement: 4,100 tons.
Dimensions: 277 × 50½ × 17½ ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 5,000 = 15 knots. Coal fired.
Protection: Main belt 9 in., deck 1¼/2 in., turrets 8 in., C.T. 7 in.
Armament: 3—9·4 in. (1 × 2, 1 × 1), 10—3·4 in. (10 × 1) guns: 4—18 in. (1 bow, 2 beam, submerged, 1 stern, above water) T.T.
Complement: 307.

SIEGFRIED	Germaniawerft, Kiel	10. 8.89	1920, scrapped, Kiel.
BEOWULF	A. G. Weser, Bremen	8.11.90	1921, scrapped, Danzig.
FRITHJOF	A. G. Weser, Bremen	21. 7.91	1930, scrapped, Danzig.
HEIMDALL	Wilhelmshaven, D.Y.	27. 7.92	1921, scrapped, Rönnebeck.
HILDEBRAND	Kiel D.Y.	6. 8.92	21.12.19 stranded on Dutch coast en route to breakers, wreck broken up 1933.
HAGEN	Kiel D.Y.	21.10.93	1919, scrapped.

Notes: All completed 1890/94. SIEGFRIED refitted Danzig D.Y., 1903/4, 1915 coastal defence, 1916 accommodation ship, Wilhelmshaven, 17.6.19 stricken, conversion to salvage ship planned but abandoned. BEOWULF refitted Danzig D.Y. 1902/04, 1915 coastal defence, 1916 target ship for submarines, 1918 icebreaker in Baltic, 17.6.19 stricken.

FRITHJOF Refitted Kiel D.Y. 1902/03, 1915 coastal defence, 1916 accommodation ship, Danzig, 17.6.19 stricken, 1923 converted for merchant use. HIEMDALL refitted Kiel D.Y. 1901/02, 1915 coastal defence, 1916 accommodation ship for submarine personnel, Emden, 17.6.19 stricken, conversion to salvage ship planned but abandoned. HILDEBRAND refitted Danzig D.Y. 1901/02, 1915 coastal defence, 1916 accommodation ship, Windau, 17.6.19 stricken. HAGEN refitted Kiel D.Y. 1898/1900, 1916 accommodation ship, Swinemunde, 17.6.19 stricken.

The old coastal defence ship HAGEN, used as an accommodation ship towards the end of the war. [*Imperial War Museum*

Odin class

Displacement: 4,150 tons.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 5,100 = 15½ knots.
All other details as SIEGFRIED class.

ODIN	Danzig D.Y.	3.11.94	1935 scrapped, Hamburg
ÄGIR	Kiel D.Y.	3. 4.95	8.12.29 stranded and wrecked off Sweden.

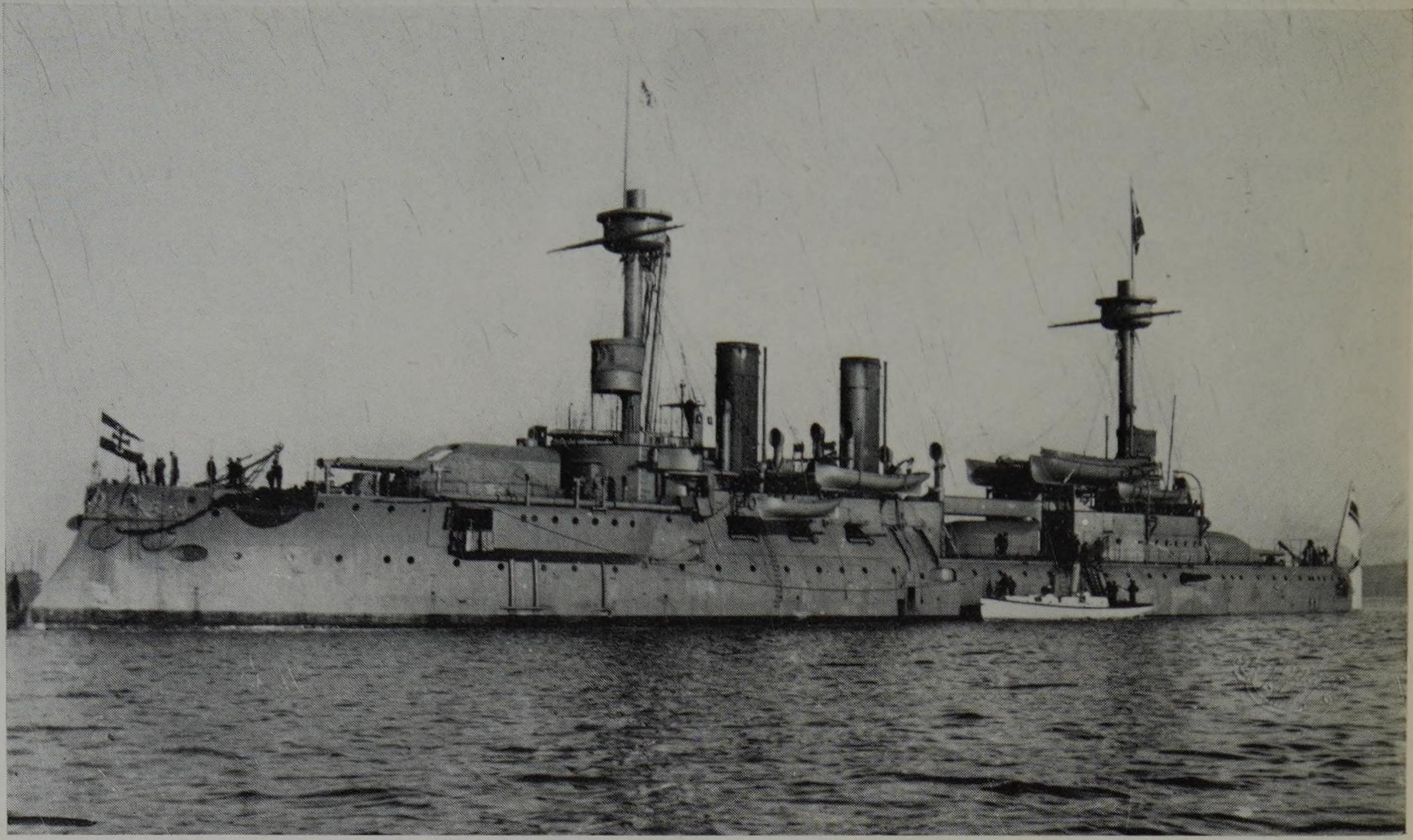
Notes: Completed 1896. ODIN refitted Danzig D.Y. 1901/03, 1915 coastal defence, 1917 tender, Wilhelmshaven, 6.12.19 stricken, 1922 converted for merchant use. ÄGIR refitted Danzig D.Y. 1903/04, 1915 coastal defence, 1916 accommodation hulk, Wilhelmshaven, 17.6.19 stricken, 1922 converted for merchant use.

Kurfürst Friedrich Wilhelm class

Displacement: 9,870 tons.
Dimensions: 380½ × 65½ × 26½ ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 10,000 = 16 knots. Coal fired.
Protection: Main belt 4 in. (ends), 12 in. (amid.), deck 2½/3 in., turrets 10½ in., C.T. 6/10 in.
Armament: 6—11 in. (3 × 2), 8—4 ·1in. (8 × 1), 8—3·4 in. (8 × 1) guns: 6—18 in. (2 bow, 4 beam) T.T., all submerged.
Complement: 585.

KURFÜRST FRIEDRICH WILHELM	Wilhelmshaven D.Y.	30. 6.91	8.8.15 torpedoed and sunk, Dardanelles, R.N. submarine E.11.
BRANDENBURG	A. G. Vulcan, Stettin	21. 9.91	1920 scrapped, Danzig.
WEISSENBURG	A. G. Vulcan, Stettin	14.12.91	1938 scrapped.
WÖRTH	Germaniawerft, Kiel	6. 8.92	1920 scrapped, Danzig,

Notes: All completed 1893/4. KURFÜRST FRIEDRICH WILHELM refitted Wilhelmshaven D.Y. 1904/5, 12.9.10 sold to Turkey as HEIREDDIN BARBAROSSA. BRANDENBURG refitted Wilhelmshaven D.Y. 1903/04, 1915 coastal defence, 1916 disarmed, accommodation and distillation ship, Libau, conversion to target ship cancelled, 13.5.19 stricken. WEISSENBURG refitted Wilhelmshaven D.Y. 1903/04, 12.9.10 sold to Turkey as TORGUD REISS. WÖRTH refitted Wilhelmshaven D.Y. 1901/03, 1915 coastal defence, 1916 disarmed, accommodation ship, Danzig, 13.5.19 stricken.



BRANDENBURG, disarmed in 1916. [*P. A. Vicary*

KAISER FRIEDRICH III wearing Admiral's flág. Alongside is the British auxiliary ALLIGATOR. [*P. A. Vicary*

Kaiser Friedrich class

Displacement: 10,600 tons.
Dimensions: 410 × 65½ × 26½ ft.
Machinery: 2-shaft Reciprocating (VTE) engines I.H.P. 13,500 = 18 knots. Coal fired.
Protection: Main belt 4 in. (ends), 12 in. (amid.), deck 3 in., turrets 10 in., C.T. 10 in.
Armament: 4—9·4 in. (2 × 2), 18—5·9 in. (18 × 1), 14—3·4 in. (14 × 1) guns: 5—18 in. (1 bow, 4 beam) T.T., all submerged.
Complement: 622.

KAISER FRIEDRICH III	Wilhelmshaven D.Y.	1. 7.96	1920 scrapped, Kiel.
KAISER WILHELM II	,,	14. 9.97	1921 scrapped, Hamburg.
KAISER WILHELM DER GROSSE	Germaniawerft, Kiel	1. 6.99	1920 scrapped, Rönnebeck.
KAISER BARBAROSSA	Schichau, Danzig	21. 4.00	1919/20 scrapped, Rüstringen.
KAISER KARL DER GROSSE	Blohm & Voss, Hamburg	19.10.99	1920 scrapped, Kiel.

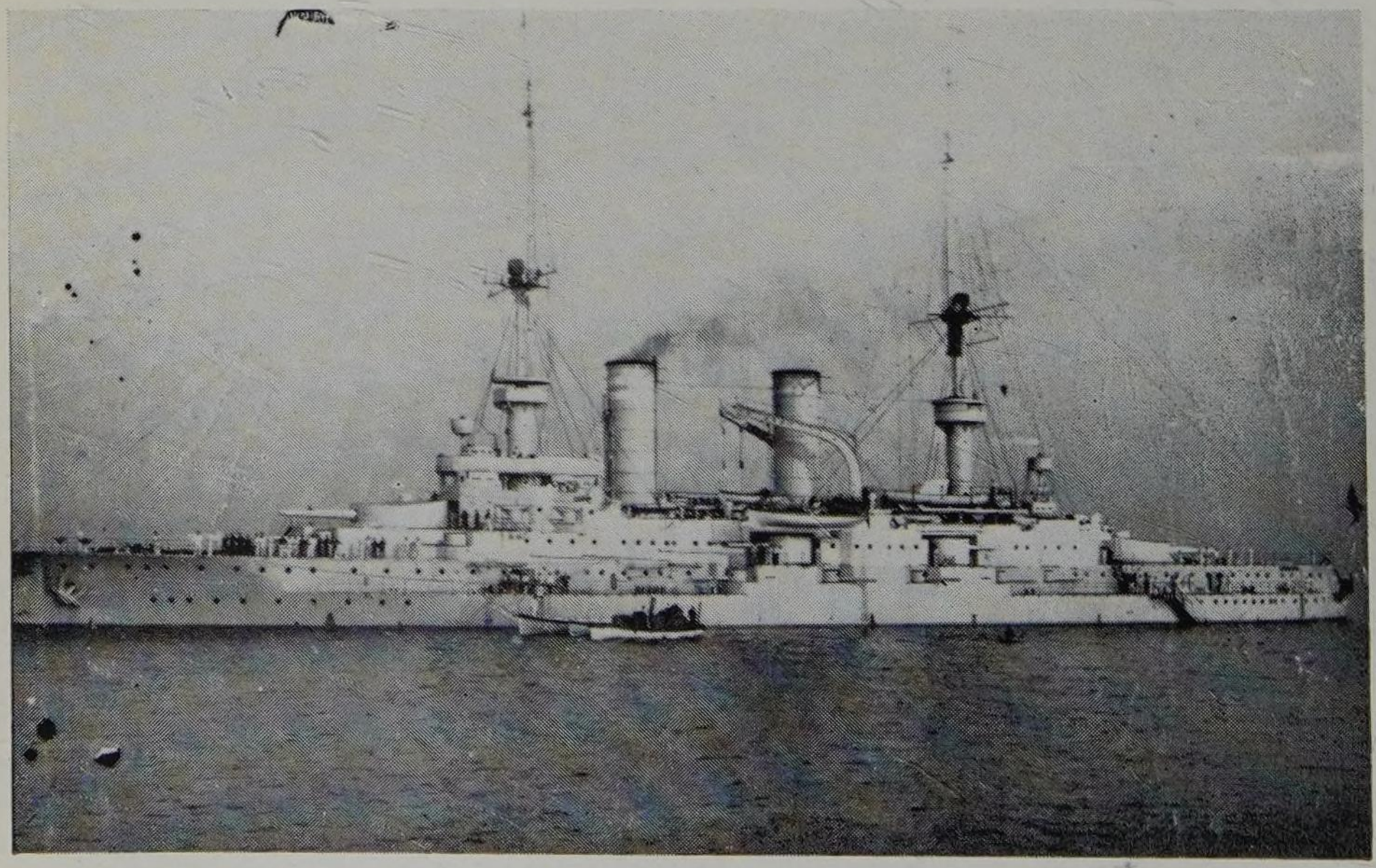
Notes: All completed 1898/1901. When reconstructed, all (except KAISER KARL DER GROSSE—not reconstructed) had 4—5·9 in. guns and much superstructure removed. This reduction in weight brought bottom edge of armoured belt dangerously close to surface and ships were withdrawn from active service. KAISER FRIEDRICH III refitted Wilhelmshaven D.Y. 1908/09, 1916 disarmed, detention ship, Kiel, 1918 accommodation ship, Flensburg, 6.12.19 stricken. KAISER WILHELM II Fleet Flagship to 1906 when replaced by DEUTSCHLAND, 1910 refitted Wilhelmshaven D.Y., 1915 disarmed, headquarters ship, Wilhelmshaven, 17.3.21 stricken. KAISER WILHELM DER GROSSE refitted Kiel D.Y. 1908/10, 1916 disarmed, depot ship and later torpedo range ship, Kiel, 6.12.19 stricken. KAISER BARBAROSSA refitted Kiel D.Y. 1907/10, 1916 disarmed, detention ship, Wilhelmshaven, 6.12.19 stricken. KAISER KARL DER GROSSE 1916 disarmed, detention ship, Wilhelmshaven, 6.12.19 stricken.

Mecklenburg class

Displacement: 11,830 tons.
Dimensions: 416 × 68 × 26 ft.
Machinery: 3-shaft Reciprocating (VTE) engines, I.H.P. 15,000 = 17/18 knots. Coal/oil fired.
Protection: Main belt 4 in. (ends), 9 in. (amid.), deck 5 in., turrets 10 in., C.T. 10 in.
Armament: 4—9·4 in. (2 × 2), 18—5·9 in. (18 × 1), 12—3·4 in. (12 × 1) guns: 6—18 in. (1 bow, 4 beam, 1 stern) T.T., all submerged.
Complement: 683.

MECKLENBURG	A. G. Vulcan, Stettin	9.11.01	25.1.20 stricken, 1921 scrapped, Kiel.
WETTIN	Schichau, Danzig	6. 6.01	11.3.20 stricken, 1922 scrapped, Rönnebeck.
WITTELSBACH	Wilhelmshaven D.Y.	3. 7.00	8.3.21 stricken, scrapped Wilhelmshaven.
SCHWABEN	,,	19. 8.01	8.3.21 stricken, 1921 scrapped, Kiel.
ZÄHRINGEN	Germaniawerft, Kiel	12. 6.01	18.12.44 bombed, Gdynia 1949/50 broken up.

Notes: All completed 1902/04. MECKLENBURG 1916 detention ship, Kiel, 1918 accommodation ship for submarine personnel, Kiel. WETTIN 1911/14 gunnery training ship, 1916 drill ship and tender. WITTELSBACH 1916 drill ship, Kiel, later tender, Wilhelmshaven, 1919 converted to depot ship for motor launches (F boats), Wilhelmshaven D.Y. SCHWABEN prior to 1911 gunnery training ship, 1916 drill ship, Wilhelmshaven, 1919 converted as WITTELSBACH. ZÄHRINGEN 1916 drill ship, Kiel, 1917 stokers' training ship, Kiel 1926/27 converted, Wilhelmshaven D.Y., wireless controlled target ship.



A pre war photograph of the old battleship MECKLENBURG. [*Major Aldo Fraccaroli*

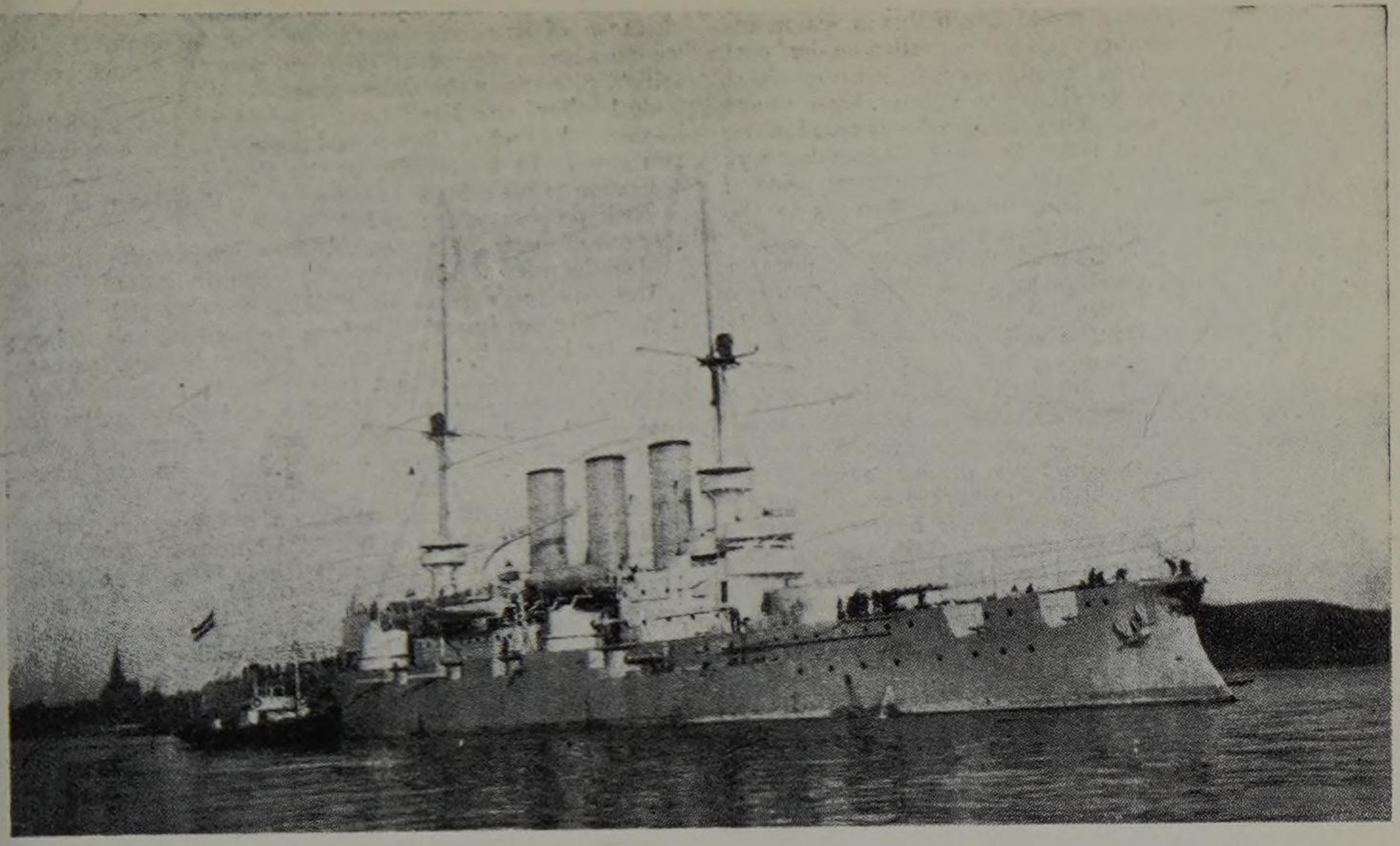
SCHWABEN, a photograph taken in 1906. [*Major Aldo Fraccaroli*

Braunschweig class

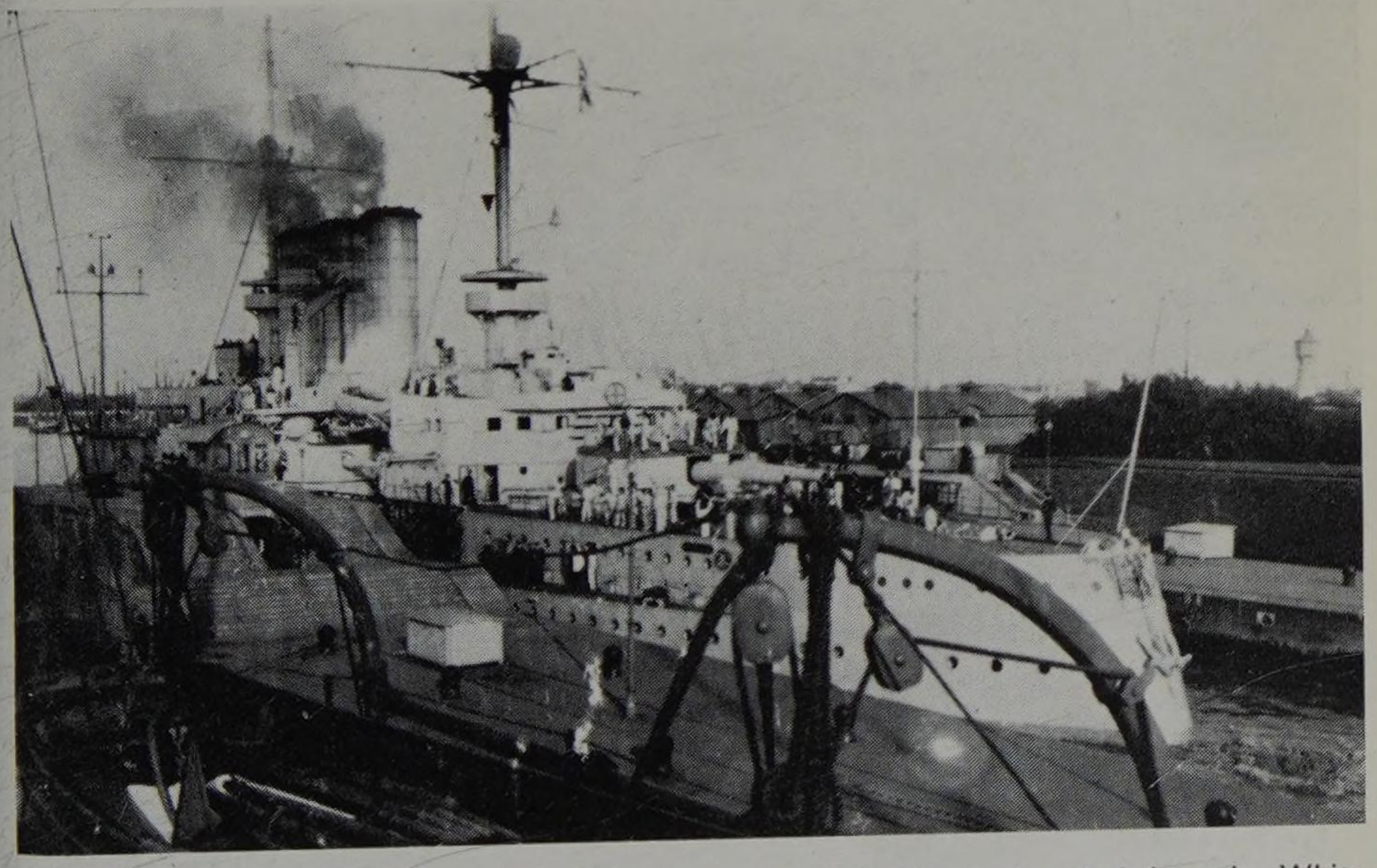
Displacement: 13,200 tons.
Dimensions: 419 × 72 × 26½ ft.
Machinery: 3-shaft Reciprocating (VTE) engines, I.P.H. 16,000 = 18 knots. Coal/oil fired.
Protection: Main belt 4 in. (ends), 9 in. (amid.), deck 3 in., turrets 6 in., C.T. 12 in.
Armament: 4—11 in. (2 × 2), 14—6·7 in. (14 × 1), 18—3·4 in. (18 × 1) guns: 6—18 in. (1 bow, 4 beam, 1 stern) T.T., all submerged.
Complement: 743.

BRAUNSCHWEIG	Germaniawerft, Kiel	20.12.02	Broken up.
ELSASS	Schichau, Danzig	26. 5.03	1932 scrapped Wilhelmshaven.
LOTHRINGEN	,,	27. 5.04	1931 scrapped, Wilhelmshaven.
HESSEN	Germaniawerft, Keil	18. 9.03	1945 to Russia as TSEL.
PREUSSEN	A. G. Vulcan, Stettin	30.10.03	1931 scrapped, Wilhelmshaven.

Notes: All completed 1904/06. Resemble following DEUTCHSLAND class with slightly less protection. BRAUNSCHWEIG 1916 disarmed, drill, later accommodation ship, Kiel. 1921/22 refitted Wilhelmshaven D.Y., rearmed 4—11 in., 12—6·7 in., 4—3·4 in. A.A. guns, 2—20 in. T.T., 31.3.31 stricken and hulked. ELSASS 1916 disarmed, drill and accommodation ship, Kiel, 1923/24 refitted Wilhelmshaven D.Y., rearmed as BRAUNSCHWEIG but 10—6·7 in. guns and 4—20 in. T.T., 31.3.31 stricken, hulked. Wilhelmshaven. LOTHRINGEN 1916 guardship in Sound, 1917 4—6·7 in, guns removed, drill ship and engineers training ship, Wilhelmshaven, 1918 disarmed, 1919 converted depot ship for motor launches (F boats), 31.3.31 stricken. HESSEN 1916 disarmed, tender at Brunsbuttel, 1923/25 refitted Wilhelmshaven D.Y., rearmed 4—11 in., 14—6·7 in., 4—3·4 in. A.A. guns, 4—20 in. T.T., 31.3.35 stricken, converted, Wilhelmshaven D.Y., wireless controlled target ship. PREUSSEN 1916 guardship in Sound, 1917 disarmed, 1919 converted Wilhelmshaven D.Y., to depot ship as LOTHRINGEN. 5.4.29 stricken, 1931 broken up, Wilhelmshaven, but 200 ft. length of armoured midships section retained at Wilhelmshaven for explosive trials, nicknamed S.M.S. VIERKANT, bombed and sunk 4/45, 1954 raised and broken up.

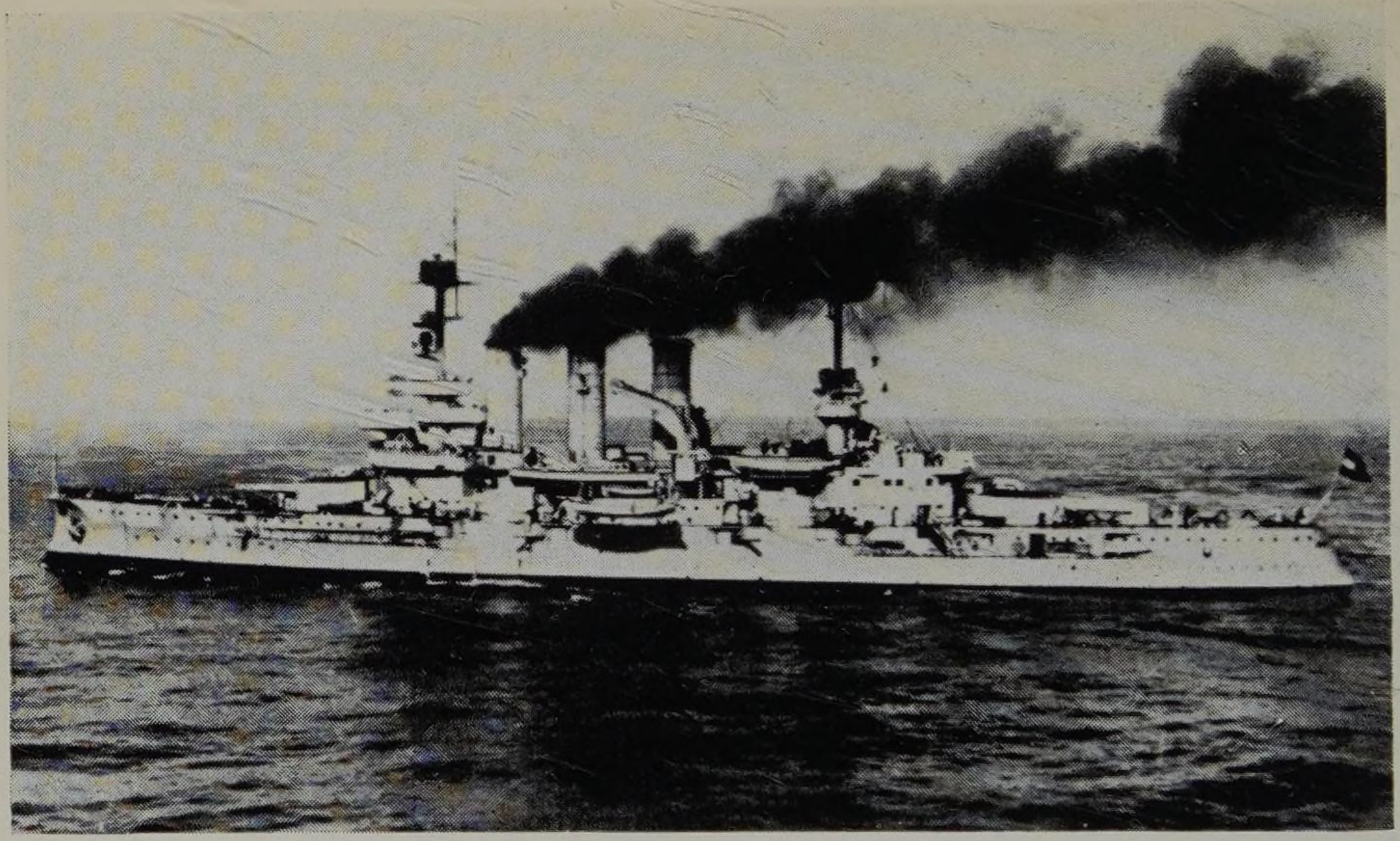


PREUSSEN, which became part of the post-war German Navy and was not scrapped until 1931.



HESSEN. The coloured bands on the funnels denoted to which division the ship belonged:—White 1st, Red 2nd, Yellow 3rd, Blue 4th.

[Major Aldo Fraccaroli



HESSEN, at sea. [*P. A. Vicary*

Deutschland class

Displacement: 13,200 tons.
Dimensions: 419 × 72 × 26½ ft.
Machinery: 3-shaft Reciprocating (VTE) engines, I.H.P. 16,000 = 18 knots. Coal/oil fired.
Protection: Main belt 4 in. (ends), 9¾ in. (amid.), deck 3 in., turrets 11 in., C.T. 12 in.
Armament: 4—11 in. (2 × 2), 14—6·7 in. (14 × 1), 20—3·4 in. (20 × 1) guns: 6—18 in. (1 bow, 4 beam, 1 stern) T.T., all submerged.
Complement: 743.

DEUTSCHLAND	Germaniawerft, Kiel	19.11.04	1920/22 scrapped, Wilhelmshaven
HANNOVER	Wilhelmshaven D.Y.	29. 9.05	1944/46 scrapped, Bremerhaven.
POMMERN	A. G. Vulcan, Stettin	2.12.05	1.6.16 torpedoed and sunk, Jutland.
SCHLESIEN	Schichau, Danzig	28. 5.06	4.5.45 mined off Swinemunde, 1949/53 broken up.
SCHLESWIG HOLSTEIN	Germaniawerft, Kiel	7.12.06	21.3.45 bombed and sunk Gdynia, 1950/56 broken up.

Notes: All completed 1906/08. Last class of pre-Dreadnoughts. Good sea boats and popular ships in German Navy. The 6·7 in. gun fired a projectile weighing 154 pounds, too heavy to be handled manually, slowing rate of fire. DEUTSCHLAND Fleet Flagship up to 1912, 31.5.16 Jutland, 1917 accommodation ship, Wilhelmshaven, 25.1.20 stricken. HANNOVER, 31.5.16 Jutland, 1917 guardship in Sound, 1920/21 refitted Wilhelmshaven D.Y., 1935 stricken, converted to wireless controlled target ship for aircraft. SCHLESIEN, 31.5.16 Jutland, 1917 drill and accommodation ship, Kiel, 1918 cadets' training ship, 1926/27 refitted and funnels trunked, partly rearmed, cadets' training ship, 1939/45 service in Baltic. SCHLESWIG HOLSTEIN 31.5.16 Jutland, 1917 tender, Bremen, 1918 accommodation ship, Kiel, 1925/26 refitted Wilhelmshaven D.Y. as SCHLESIEN, 1926 Fleet Flagship, 1935 cadets' training ship, 1939/45 service in Baltic.

PART 2 — CRUISERS

Because of the comparatively modern rise of the German Navy it possessed relatively few of the older types of armoured cruiser, and by 1914 these were either used for training purposes or in reserve.

The light cruisers, named after cities and towns evolved progressively and were successful ships, being fast and well armed. The designed speeds were often passed in trials and it was unofficially said that two knots could be added to the published speed. As in the case of capital ships a heavy reliance was placed on coal firing.

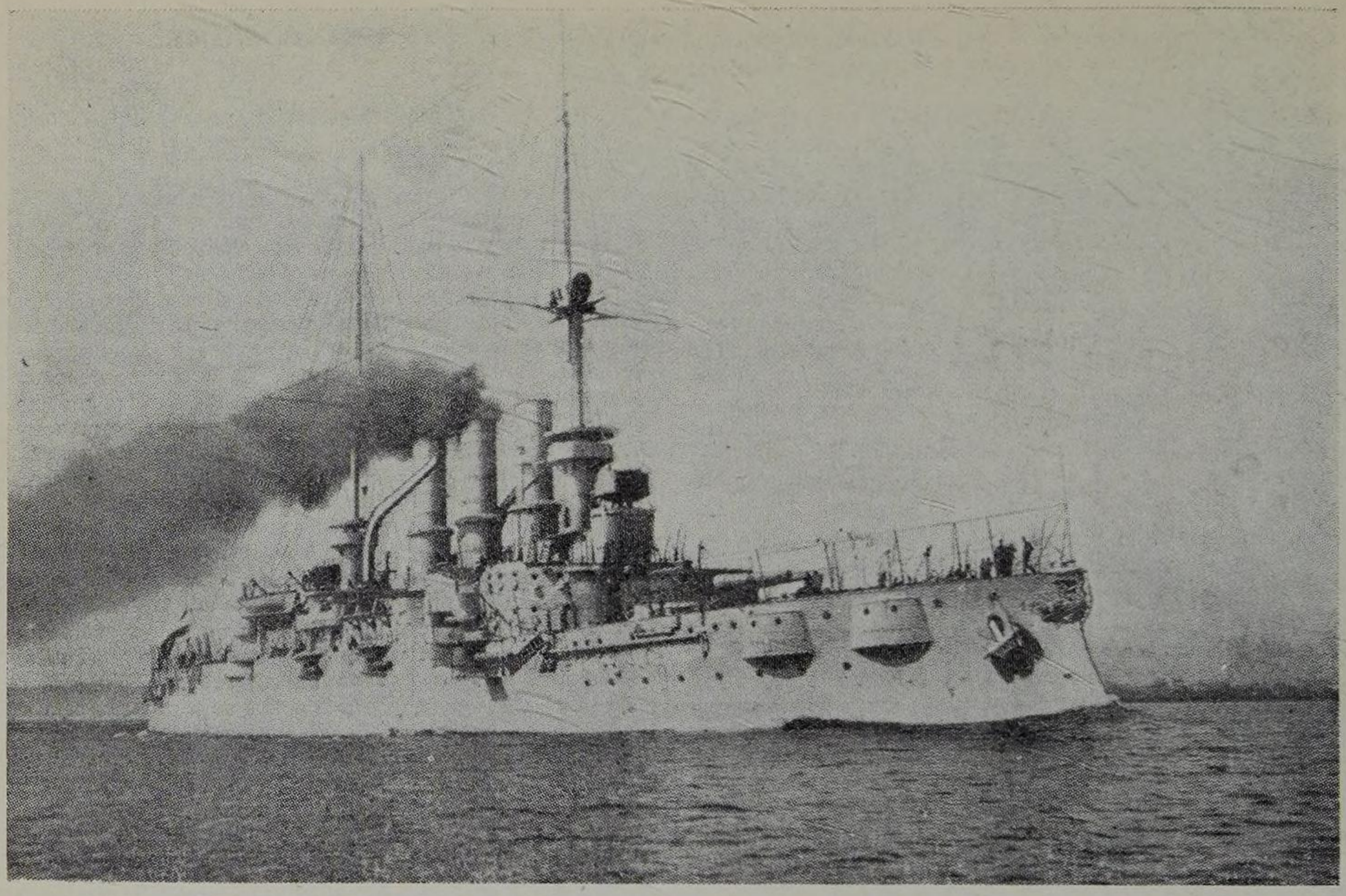
The German 4·1 inch gun fitted was a hard hitting weapon, which could outrange the types of 6 inch gun mounted in the older British cruisers.

As the war progressed many of the light cruisers were re-armed, the 4·1 inch guns being replaced by a smaller number of 5·9 inch, again an excellent weapon.

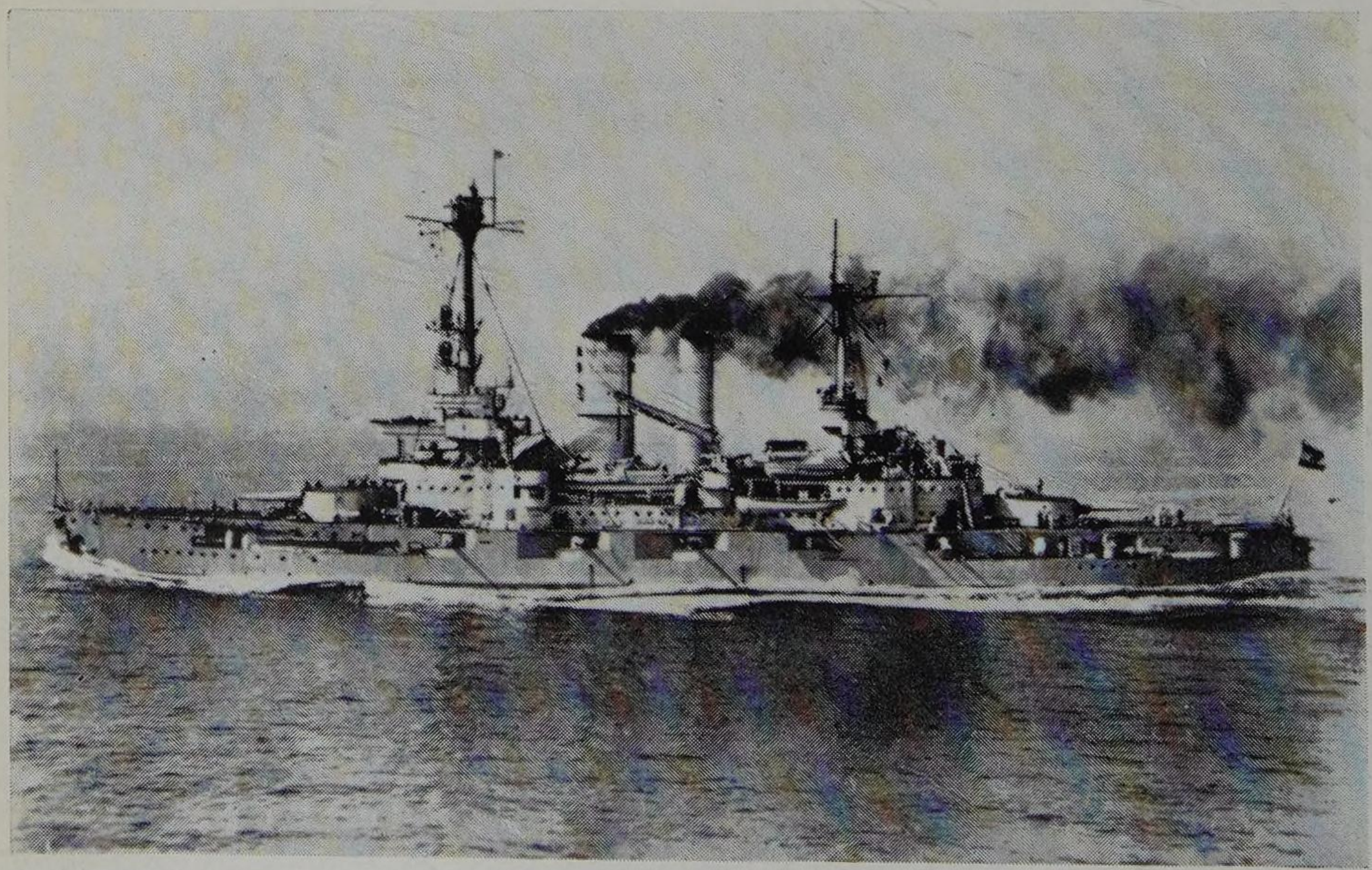
Many were also adapted and used at various times as minelayers, BRUMMER and BREMSE being specially built for this purpose and may be regarded as the first of the fast minelayer type.

For aerial reconnaissance the Germans relied mainly on Zeppelins, so that shipboard aircraft were conspicuous by their absence, only the light cruiser STUTTGART being adapted to carry seaplanes.

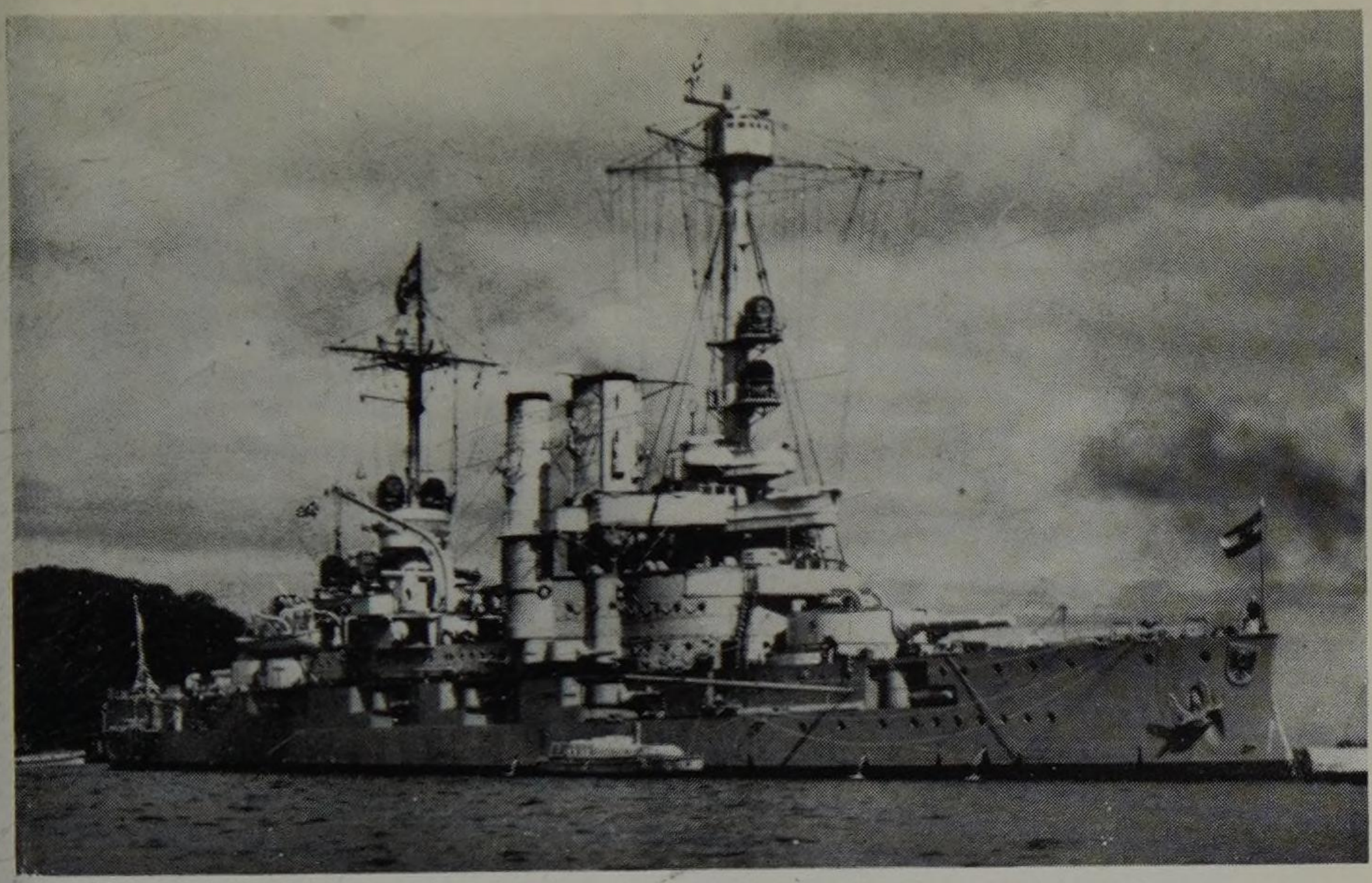
As in the Royal Navy, light cruisers were used as leaders of destroyer flotillas.



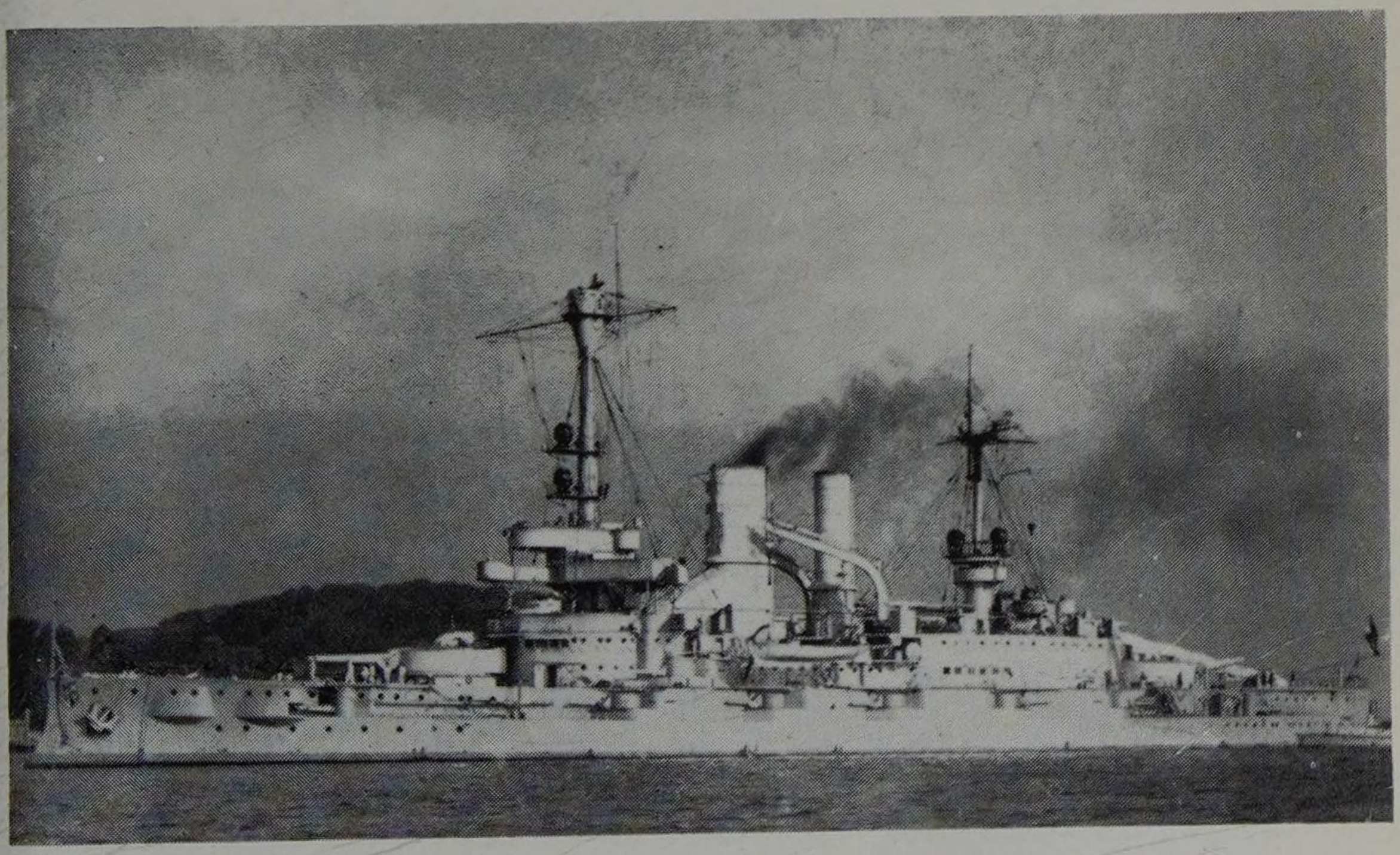
DEUTSCHLAND. This class could be distinguished from the BRAUNSCHWEIG class by different shape of funnels. Note elaborate ornamentation on bow.



SCHLEISIEN at sea after war with funnels trunked and flying post-war naval ensign. [*P. A. Vicary*



Another post-war photograph of SCHLEISIEN which lived to fight in World War II.
[Imperial War Museum



A 1930 photograph of SCHLESWIG HOLSTEIN which also fought in World War II.
[P. A. Vicary

Kaiserin Augusta

Displacement: 6,000 tons.
Dimensions: 403 × 52½ × 24¼ ft.
Machinery: 3-shaft Reciprocating (VTE) engines, I.H.P. 12,000 = 21 knots. Coal fired.
Protection: deck 2/3 in.
Armament: 4—5·9 in. (4 × 1), 8—4·1 in. (8 × 1), 8—3·4 in. (8 × 1) guns: 5—14 in. (1 bow, submerged, 4 beam, above water) T.T.
Complement: 430.

KAISERIN AUGUSTA	Germaniawerft, Kiel	15. 1.92	1920 scrapped, Kiel.

Notes: Completed 1892. Foreign service to 1902, 1903/07 refitted Kiel D.Y., 1914 gunnery training ship, 1.10.19 stricken. Armament modifications, 1896 12—5·9 in., 8—3·4 in., 5—T.T.; 1907 above water T.T. removed; 1916 1—5·9 in., 4—4·1 in., 14—3·4 in. (these last of 3 different types for training purposes.)

Viktoria Luise class

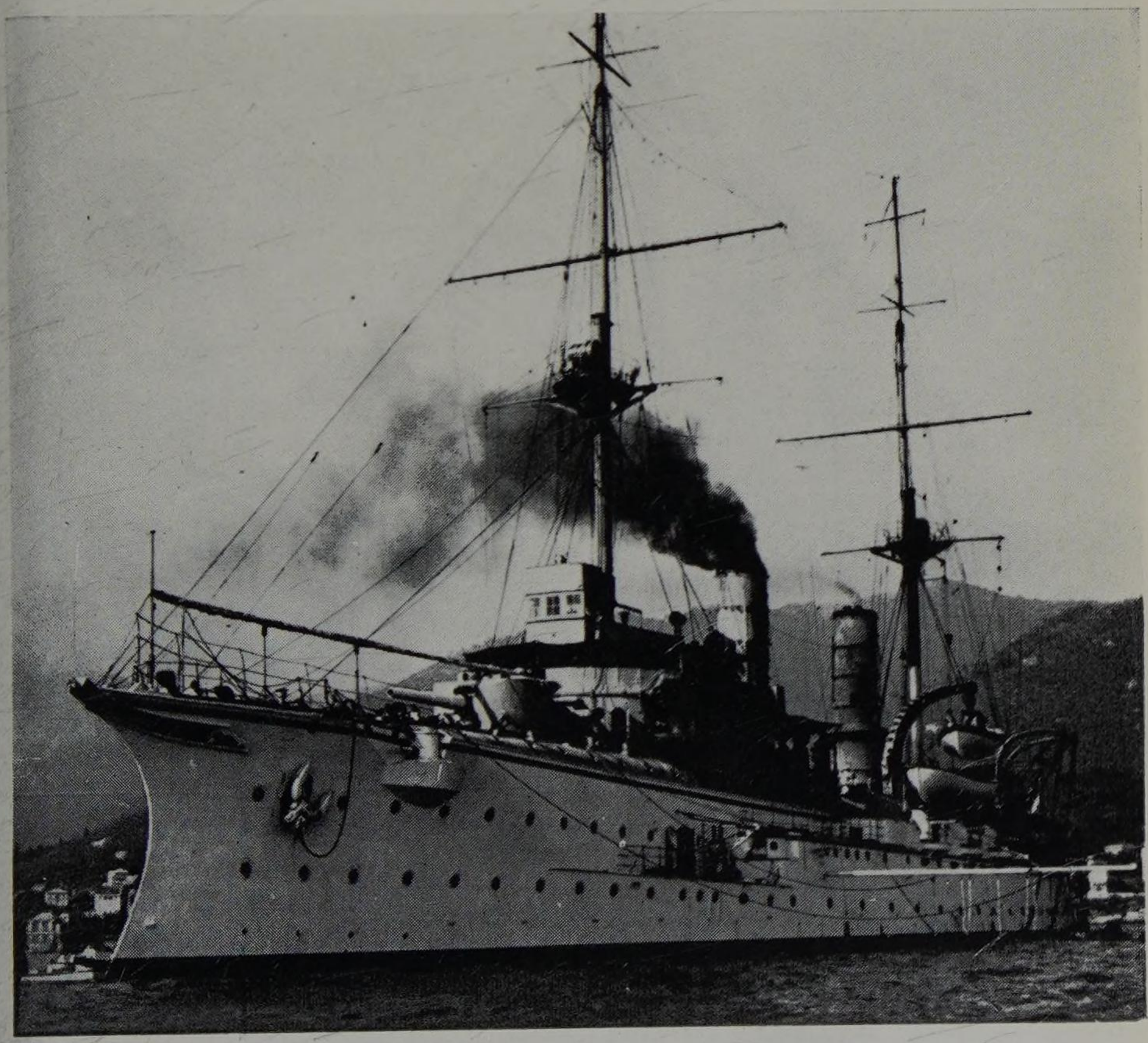
Displacement: 5,800 tons.
Dimensions: 360 × 55½ × 23 ft.
Machinery: 3-shaft Reciprocating (VTE) engines, I.H.P. 10,000 = 18 knots. Coal fired.
Protection: Deck ½/4 in., turrets and casemates 4 in., C.T. 6 in.
Armament: 2—8·2 in. (2 × 1), 8—5·9 in. (8 × 1), 10—3·4 in. (10 × 1) guns: 3—18 in. (1 bow, 2 beam) T.T., all submerged.
Complement: 477.

VIKTORIA LUISE	A. G. Weser, Bremen	29. 3.97	1923 scrapped, Danzig.
HERTHA	A. G. Vulcan, Stettin	14.4.97	1920 scrapped, Audorf-Rendsburg.
FREYA	Danzig D.Y.	27.4.97	1921 scrapped, Harburg
VINETA	,,	14.4.97	1920 scrapped, Harburg,
HANSA	A. G. Vulcan, Stettin	12.3.98	1920 scrapped, Audorf-Rendsburg.

Notes: All completed 1898/99. VIKTORIA LUISE 1906/08 refitted Wilhelmshaven D.Y., seaman boys' and cadets' training ship, 1914 coastal defence, 1915 mining depot and accommodation ship, Danzig, 1.10.19 stricken, converted for merchant use. HERTHA foreign service until 1905, 1906/08 refitted Kiel D.Y., 1908 training ship as VIKTORIA LUISE, 1914 coastal

defence, 1915 accommodation ship, Flensburg, 6.12.19 stricken. FREYA 1905/07 refitted Wilhelmshaven D.Y., 1907 training ship as VIKTORIA LUISE, 1911/13 refitted Danzig D.Y., 1914 coastal defence, 1915 training ship as before, 25.12.20 stricken, police accommodation ship, Hamburg. VINETA foreign service to 1905, 1908 experimental vessel, 1909/11 refitted Danzig D.Y., 1911 training ship as VIKTORIA LUISE, 1914 coastal defence, 1915 accommodation ship, Kiel, 6.12.19 stricken. HANSA foreign service to 1906, 1907/09 refitted Danzig D.Y., 1909 training ship as VIKTORIA LUISE, 1914 coastal defence, 1915 accommodation ship, Kiel, 6.12.19 stricken.

From 1916 all disarmed except FREYA which carried 1—5·9 in., 4—4·1 in., 14—3·4 in., guns as training ship. During refits all had number of funnels reduced from three to two.



The armoured cruiser VIKTORIA LUISE, from 1915 an accommodation ship. [*Major Aldo Fraccaroli*

Another view of VIKTORIA LUISE. [*Major Aldo Fraccaroli*

Furst Bismarck

Displacement: 10,700 tons.
Dimensions: 417 × 65½ × 28 ft.
Machinery: 3-shaft Reciprocating (VTE) engines, I.H.P. 13,500 = 19 knots. Coal fired.
Protection: Main belt 4 in. (ends), 8 in. (amid.) deck 2 in., turrets 8 in., C.T. 8 in.
Armament: 4—9·4 in. (2 × 2), 12—5·9 in. (12 × 1), 10—3·4 in. (10 × 1) guns: 6—18 in. (1 bow, 4 beam—all submerged, 1 stern—above water) T.T.
Complement: 594.

FÜRST BISMARCK	Kiel D.Y.	25.9.97	1919/20 scrapped, Audorf-Rendsburg.

Note: Completed 1900. Foreign service to 1909, 1910/15 refitted Kiel D.Y., 1915 coastal defence, 1916 disarmed, engineers' training ship, Kiel, 17.6.19 stricken.

Prinz Heinrich

Displacement: 8,900 tons.
Dimensions: 413½ × 65½ × 26½ ft.
Machinery: 3-shaft Reciprocating (VTE) engines, I.H.P. 15,000 = 20½ knots. Coal/oil fired.
Protection: Main belt 2 in. (ends), 4 in. (amid.), deck 1¼/2¼ in., turrets 6 in., C.T. 6 in.
Armament: 2—9·4 in. (2 × 1), 10—5·9 in. (10 × 1), 10—3·4 in. (10 × 1) guns: 4—18 in. (1 bow, 2 beam—all submerged, 1 stern—above water) T.T.
Complement: 567.

PRINZ HEINRICH	Kiel D.Y.	22.3.00	1920 scrapped, Audorf-Rendsburg.

Note: Completed 1902. 1914 refitted Kiel D.Y., 1916 disarmed, headquarters ship and tender, Kiel, 25.1.20 stricken. Built especially for service abroad.

Prinz Adalbert class

Displacement: 9,050 tons.
Dimensions: 415 × 65 × 24 ft.
Machinery: 3-shaft Reciprocating (VTE) engines, I.H.P. (PRINZ ADALBERT 16,000, FRIEDRICH KARL 17,000)—21 knots. Coal/oil fired.
Protection: Main belt 3 in. (ends), 4 in. (amid.), deck 1¼/2¼ in., turrets 6 in., C.T. 6 in.

Armament: 4—8·2 in. (2 × 2), 10—5·9 in. (10 × 1), 12—3·4 in. (12 × 1) guns: 4—18 in. (1 bow, 2 beam, 1 stern) T.T., all submerged.
Complement: 591

PRINZ ADALBERT	Kiel D.Y.	22.6.01	23.10.15 torpedoed and sunk off Libau, R.N. submarine E8.
FRIEDRICH KARL	Blohm & Voss, Hamburg	21.6.02	17.11.14 mined and sunk, Baltic, w.s.w. of Memel.

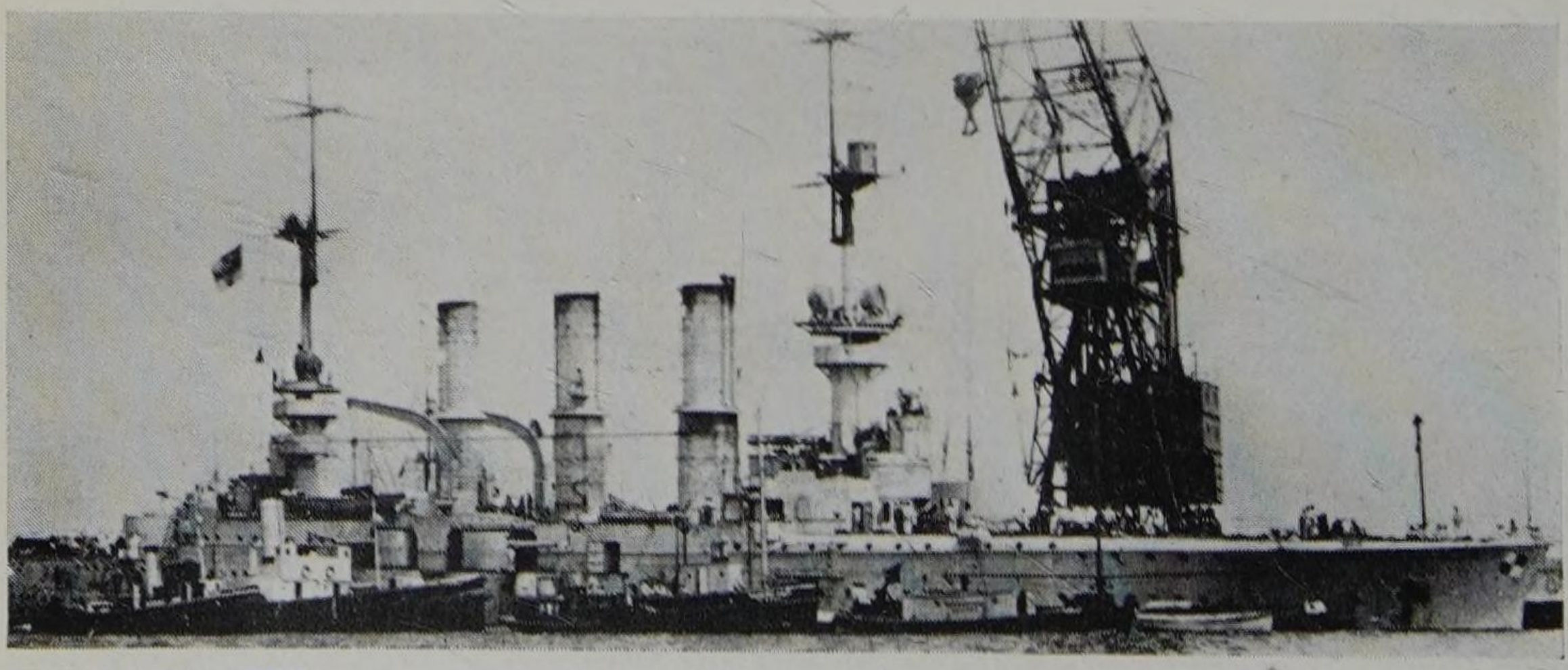
Notes: Completed 1903/04. PRINZ ADALBERT 1904/14 gunnery training ship. FRIEDRICH KARL 1908 torpedo training ship, 1914 coastal defence.

Roon class

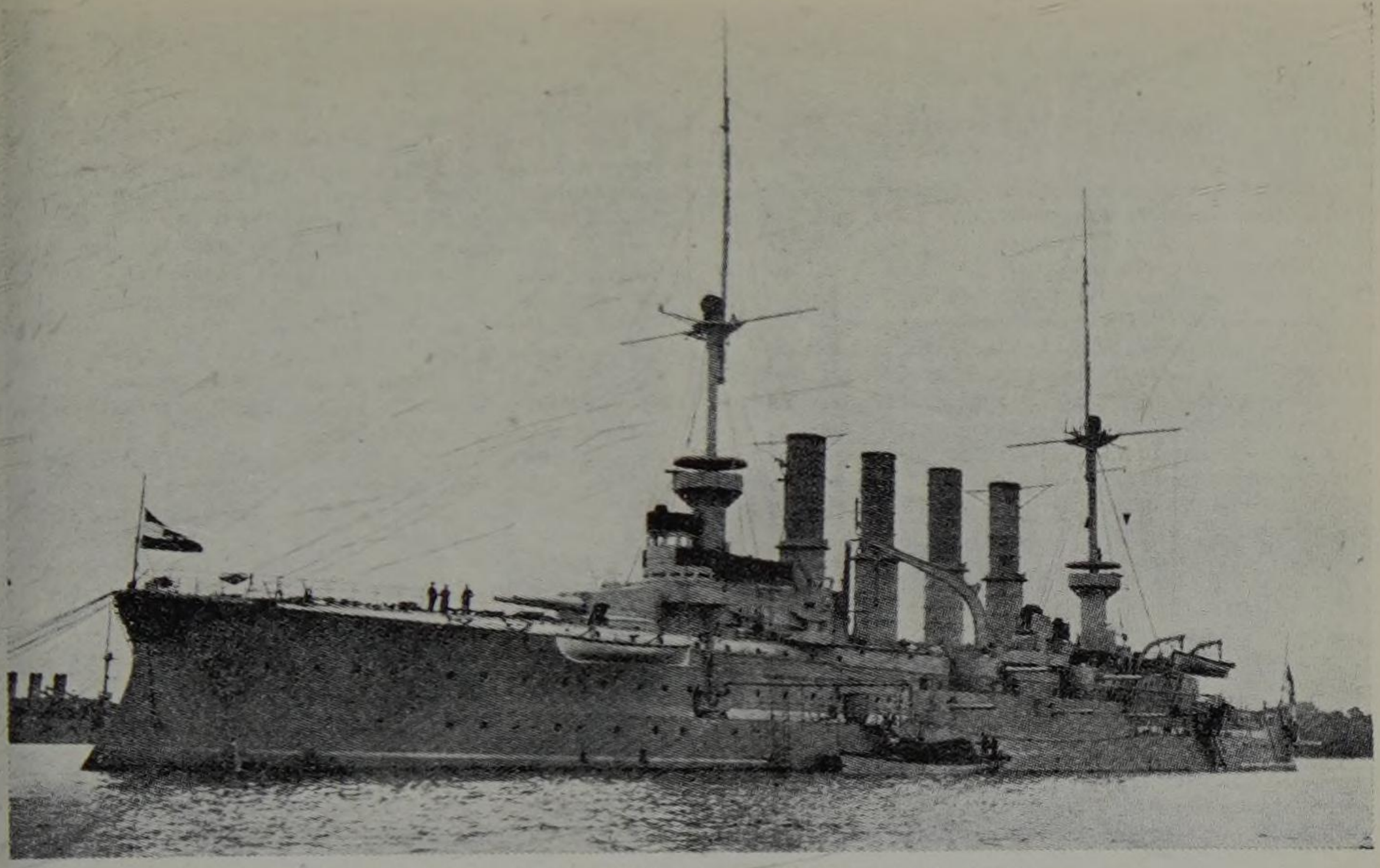
Displacement: 9,350 tons.
Dimensions: 419¼ × 66 × 24 ft.
Machinery: 3-shaft Reciprocating (VTE) engines, I.H.P. 19,000 = 21½ knots. Coal/oil fired.
Protection: Main belt 4 in., deck 1½/2 in., turrets 6 in., C.T. 6 in.
Armament: 4—8·2 in. (2 × 2), 10—5·9 in. (10 × 1), 14—3·4 in. (14 × 1) guns: 4—18 in. (1 bow, 2 beam, 1 stern) T.T. all submerged.
Complement: 633.

ROON	Kiel D.Y.	27.6.03	1921 scrapped, Kiel.
YORCK	Blohm & Voss, Hamburg	14.5.04	4.11.14 mined and sunk, North Sea.

Notes: Completed 1905/06. ROON 1916 disarmed, conversion to seaplane carrier projected (6—5·9 in., 6—3·4 in. guns, 4 seaplanes). Guard and accommodation ship, Kiel, 25.11.20 stricken. Poorly protected and not a successful class in service.



PRINZ ADALBERT in dock after being torpedoed by RN submarine E9 off Danzig, July 2, 1915.
[Imperial War Museum



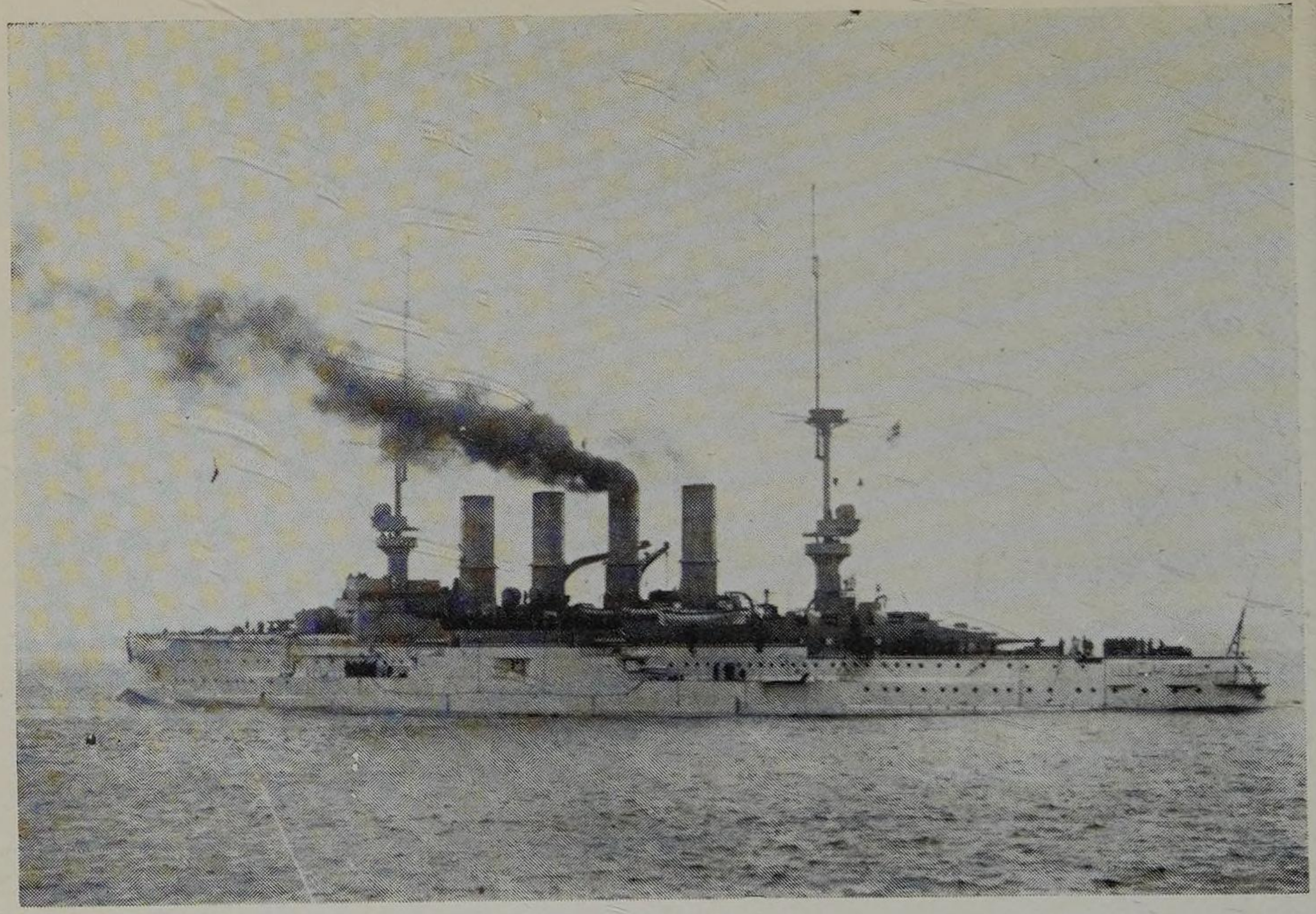
The armoured cruiser ROON, not a successful ship and disarmed in 1916.

Scharnhorst class

Displacement: 11,600 tons.
Dimensions: $474\frac{1}{2} \times 71 \times 24\frac{1}{2}$ ft.
Machinery: 3-shaft Reciprocating (VTE) engines, I.H.P. 28,000 = $22\frac{1}{2}$ knots. Coal/oil fired.
Protection: Main belt 3 in. (ends), 6 in. (amid.), deck $1\frac{1}{2}/2\frac{1}{4}$ in., turrets 6 in., C.T. 8 in.
Armament: 8—8·2 in. (2 × 2, 4 × 1), 6—5·9 in. (6 × 1), 18—3·4 in. (18 ×1) guns: 4—18 in. (1 bow, 2 beam, 1 stern) T.T., all submerged.
Complement: 764

SCHARNHORST	Blohm & Voss, Hamburg	22.3.06	8.12.14 sunk by gunfire, R.N. battlecruisers INFLEXIBLE and INVINCIBLE, Falkland Islands.
GNEISENAU	A. G. Weser, Bremen	14.6.06	,, ,,

Notes: Completed 1907/08. In far east at outbreak of war. SCHARNHORST flagship of Vice Admiral Graf von Spee. Both at Battle of Coronel 1.11.14.



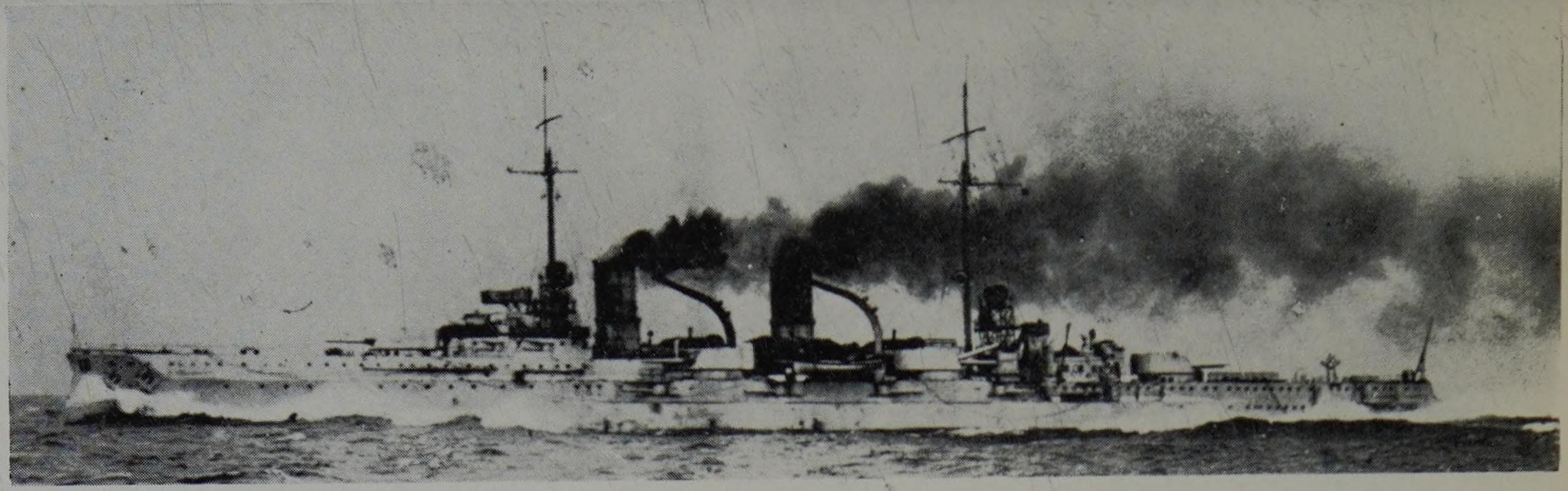
SCHARNHORST, sunk at the battle of the Falkland Islands. [*Imperial War Museum*

Blucher

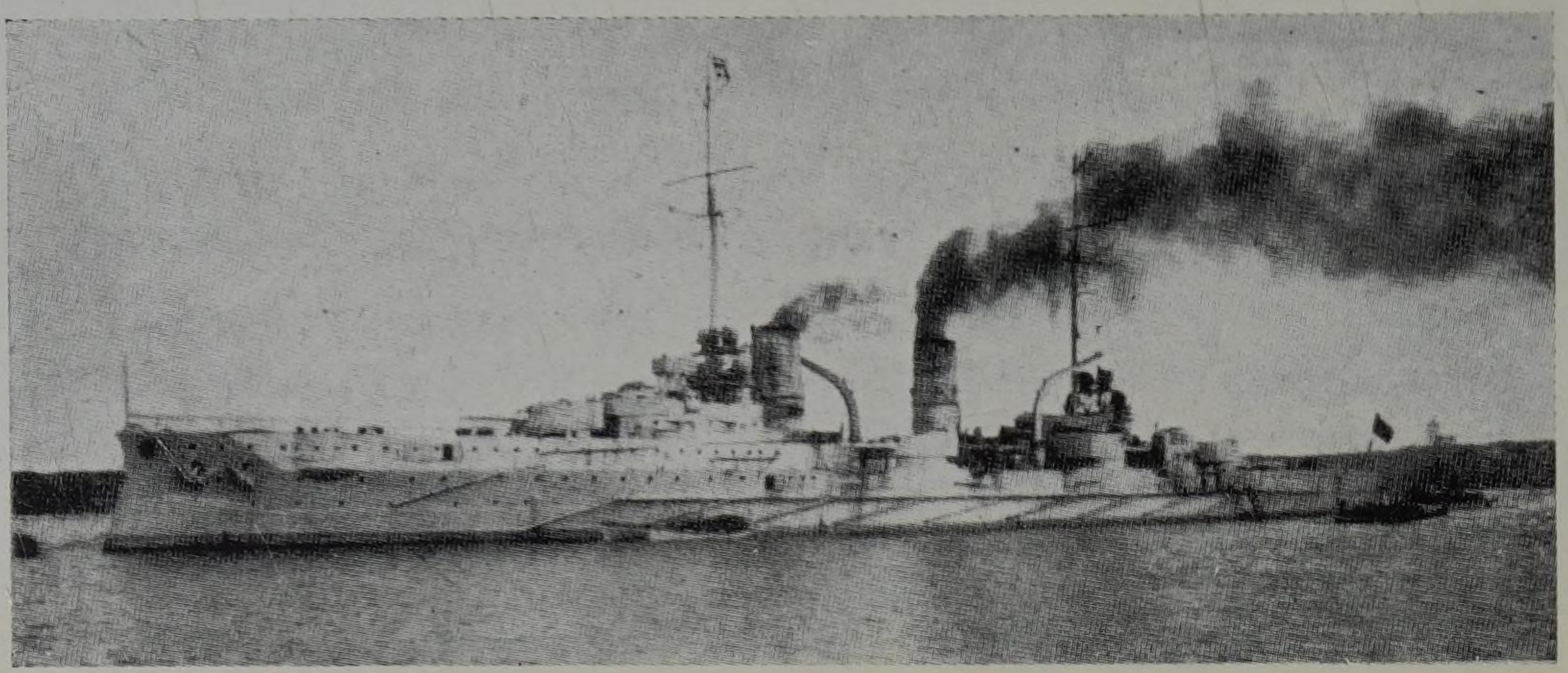
Displacement: 15,500 tons.
Dimensions: $520\frac{1}{2} \times 80\frac{1}{2} \times 28$ ft.
Machinery: 3-shaft Reciprocating (VTE) engines, I.H.P. 32/44,000 = $24\frac{1}{2}$/26 knots. Coal fired.
Protection: Main belt 4 in. (ends), 7 in. (amid.) deck $2\frac{1}{2}$ in., turrets 6 in., C.T. 6 in.
Armament: 12—8·2 in. (6 × 2), 8—5·9 in. (8 × 1), 16—3·4 in. (16 × 1) guns; 4—18 in. (1 bow, 2 beam, 1 stern) T.T., all submerged.
Complement: 888.

BLÜCHER	Wilhelmshaven D.Y.	11.4.08	24.1.15 Sunk by gunfire, R.N. battlecruisers, Battle of Dogger Bank.

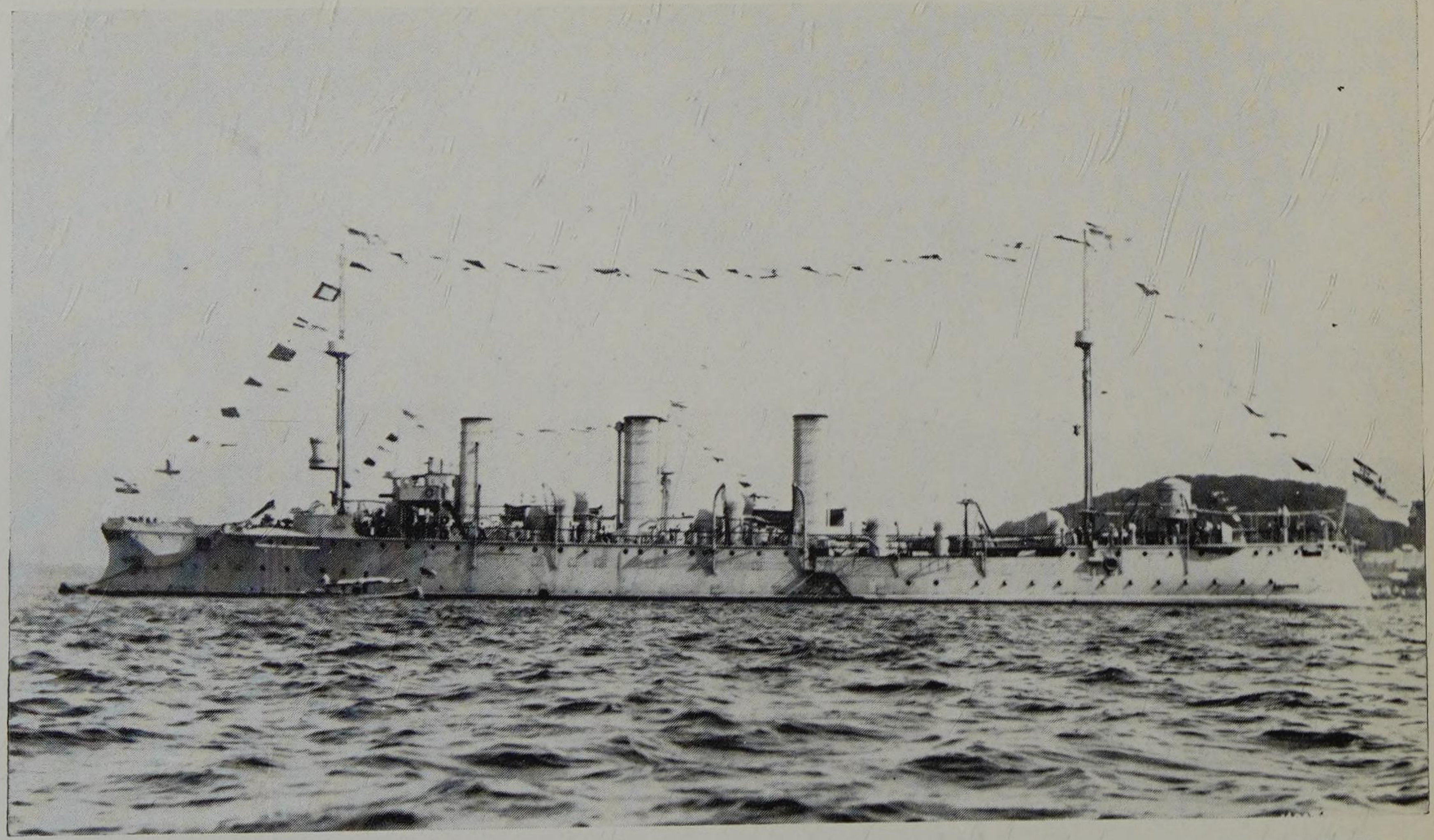
Notes: Completed 1908. 8·2 in. guns disposed in same pattern as WESTFALEN battleships, in the belief that British battlecruisers of INVINCIBLE class would also have guns of same calibre. Built with pole foremast, but 1913 converted to tripod, the first, and for a time the only German ship to have such a mast. From 1911/14 gunnery training ship.



BLÜCHER at sea. A pre war photograph of her when she was a gunnery training ship
[P. A. Vicary

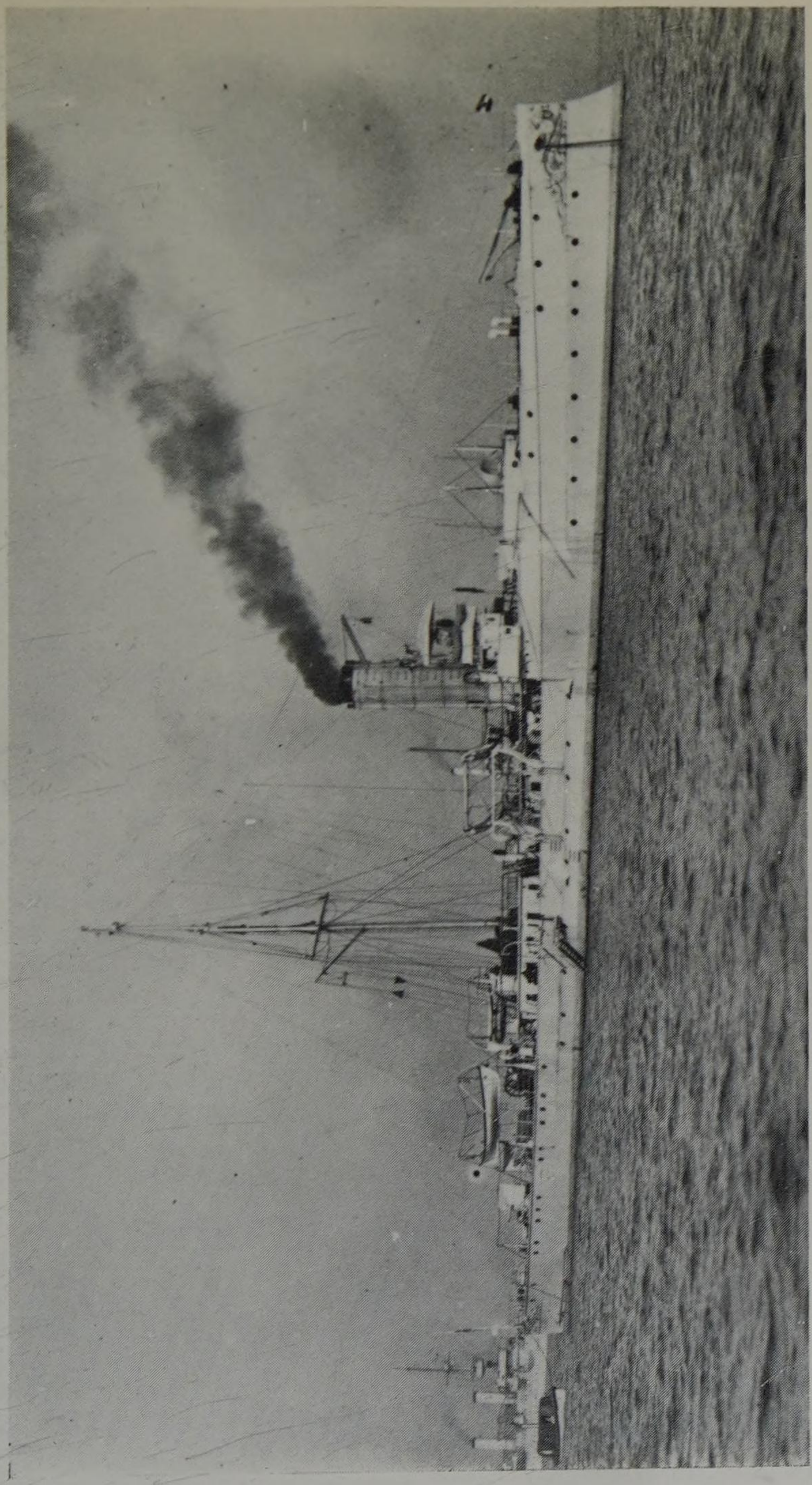


Another photograph of BLÜCHER showing her as originally built with pole foremast. In 1913 a tripod was substituted and for a time she was the only ship in the German Navy to be so fitted.



The old protected cruiser GEFION, disarmed in 1916.

[*Imperial War Museum*



[Imperial War Museum

HELA, torpedoed and sunk by RN submarine E9 off Heligoland, September 13, 1914.

Gefion

Displacement: 3,770 tons.
Dimensions: $362\frac{1}{2} \times 42\frac{1}{2} \times 20\frac{1}{2}$ ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 9,000 = 19 knots. Coal fired.
Protection: Deck $1\frac{1}{4}$ in.
Armament: 10—4·1 in. (10 × 1), 6—4 pdr. (6 × 1) guns; 2—18 in. (deck) T.T.
Complement: 296.

GEFION	Schichau, Danzig	31.5.93	1923 scrapped, Danzig.

Notes: Completed 1894. 1897/01 foreign service, 1901/04 refitted Wilhelmshaven D.Y., 1916 accommodation ship, Danzig, 5.11.19 stricken and sold, 1920 converted for merchant use.

Hela

Displacement: 2,040 tons.
Dimensions: $344\frac{1}{2} \times 36 \times 15$ ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 6,000 = $20\frac{1}{2}$ knots. Coal fired.
Protection: Deck 1 in.
Armament: 4—3·4 in. (4 × 1), 6—4 pdr. (6 × 1) guns: 3—18 in. (1 bow, submerged—2 beam, deck) T.T.
Complement: 178.

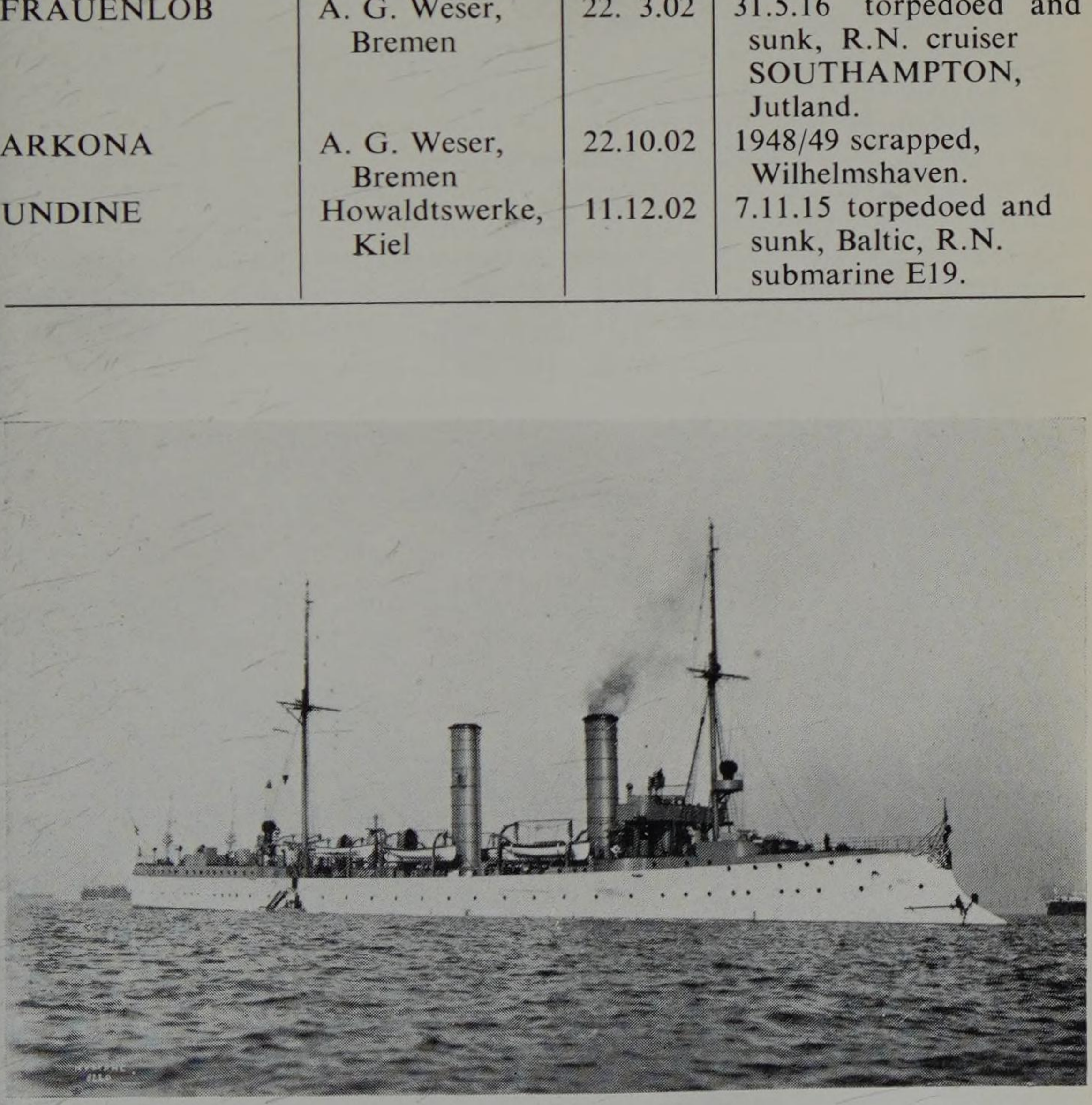
HELA	A. G. Weser, Bremen	28.3.95	13.9.14 torpedoed and sunk, North Sea, off Heligoland, R.N. submarine E9.

Notes: Completed 1896. 1900/01 foreign service, 1903/06 refitted Wilhelmshaven D.Y., 1910 again refitted Wilhelmshaven, as fleet tender, funnels increased from one to two, 1914 fleet and patrol flotilla.

Gazelle class

Displacement: 2,645/2,715 tons.
Dimensions: $344\frac{1}{2} \times 39/40 \times 17\frac{1}{2}$ ft.
Machinery: 2-shaft Reciprocating (VTE) engines 8/8,500 I.H.P. = $19\frac{1}{2}/22$ knots. Coal fired.
Protection: Deck 2 in.
Armament: 10—4·1 in. (10 × 1) guns: 2—18 in. (beam) T.T., submerged.
GAZELLE 3—18 in. (1 bow, submerged—2 beam, above water)
Complement: 268/275.

GAZELLE	Germaniawerft, Kiel	31. 3.98	Scrapped, Wilhelmshaven
NIOBE	A. G. Weser, Bremen	18. 7.99	22.12.43 torpedoed and sunk, Adriatic, R.N. M.T.B's.
NYMPHE	Germaniawerft, Kiel	21.11.99	1932 scrapped, Hamburg.
THETIS	Danzig D.Y.	3. 7.00	1930 scrapped, Hamburg.
ARIADNE	A. G. Weser, Bremen	10. 8.00	28.8.14 sunk, Battle of Heligoland Bight.
AMAZONE	Germaniawerft, Kiel	6.10.00	1954 scrapped, Hamburg,
MEDUSA	A. G. Weser, Bremen	5.12.00	1948/50 scrapped, Wilhelmshaven.
FRAUENLOB	A. G. Weser, Bremen	22. 3.02	31.5.16 torpedoed and sunk, R.N. cruiser SOUTHAMPTON, Jutland.
ARKONA	A. G. Weser, Bremen	22.10.02	1948/49 scrapped, Wilhelmshaven.
UNDINE	Howaldtswerke, Kiel	11.12.02	7.11.15 torpedoed and sunk, Baltic, R.N. submarine E19.



NYMPHE, which survived the war and was not scrapped until 1932. [*Imperial War Museum*

Notes: All completed 1900/04. GAZELLE 1902/04 foreign service 1905/07 refitted Danzig D.Y., 1914 coastal defence, 1916 disarmed, mining depot hulk, Cuxhaven, 1918 Wilhelmshaven, 28.8.20 stricken. NIOBE 1906/09 foreign service, 1914 coastal defence, 1916 disarmed, 1917 headquarters and accommodation ship, Wilhelmshaven, 24.6.25 stricken and sold, rebuilt and to Yugoslavia as DALMACIJA, 1941 taken over by Italy as CATTARO, 11.9.43 taken over by Germany as NIOBE. NYMPHE 1900/14 fleet service and training ship, 1914 coastal defence, 1916 disarmed, accommodation and drill ship, Kiel, 1923/24 refitted Wilhelmshaven D.Y., 31.3.31 stricken. THETIS 1902/06 foreign service, 1914 coastal defence, 1917 rearmed 9—4·1 in. guns of more modern type as gunnery training ship, 27.3.29 stricken. ARIADNE 1914 coastal defence. AMAZONE 1914 coastal defence, 1916 disarmed, submarine school target ship, 1917 accommodation ship, Kiel, 1921/23 refitted and rearmed Wilhelmshaven D.Y. for fleet service, 31.3.31 accommodation hulk, Kiel, 1945 accommodation hulk for displaced persons, Bremen. MEDUSA 1914 coastal defence, 1916 rearmed 6—4·1 in. guns, tender for KÖNIG WILHELM, 1920/24 fleet service 27.3.27 stricken, accommodation ship, Wilhelmshaven, 1942 converted to floating A.A. battery (Flak ship) 5—4·1 in. A.A. 2—37 mm. A.A., 4—20 mm A.A. guns, 3.5.45 scuttled, Wilhelmshaven. ARKONA 1907/10 foreign service, 1911/12 refitted and rearmed Wilhelmshaven D.Y. as minelayer and coastal defence ship—10—4·1 in. guns, 2—20 in. T.T. (deck), 200 mines, 1921/23 fleet service, 15.1.30 stricken, accommodation ship at Wilhelmshaven, Swinemunde, Kiel, in turn, 1942 converted as MEDUSA, 3.5.45 scuttled, Wilhelmshaven. UNDINE 1904/14 gunnery training ship, 1914 coastal defence.

LIGHT CRUISERS

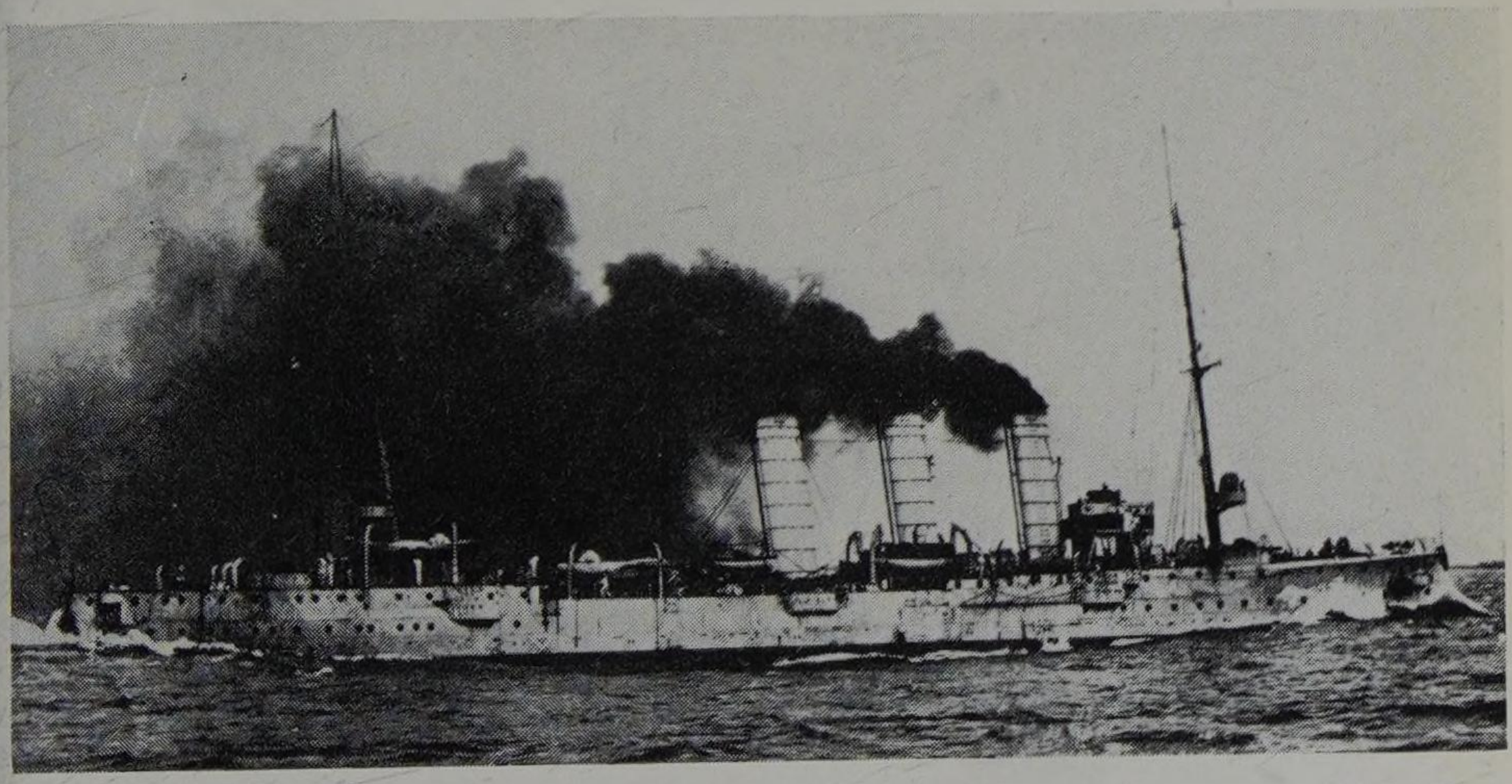
Bremen class

Displacement: 3,250 tons.
Dimensions: $364\frac{1}{2} \times 34\frac{1}{2} \times 17\frac{1}{2}$ ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 11,000/12,000 = 23 knots. LÜBECK only 8-shaft turbines, S.H.P. 11/000, 14,000 = 23 knots. Coal fired.
Protection: Deck 2 in.
Armament: 10—4·1 in. (10 × 1) guns: 2—18 in. (submerged) T.T.
Complement: 303.

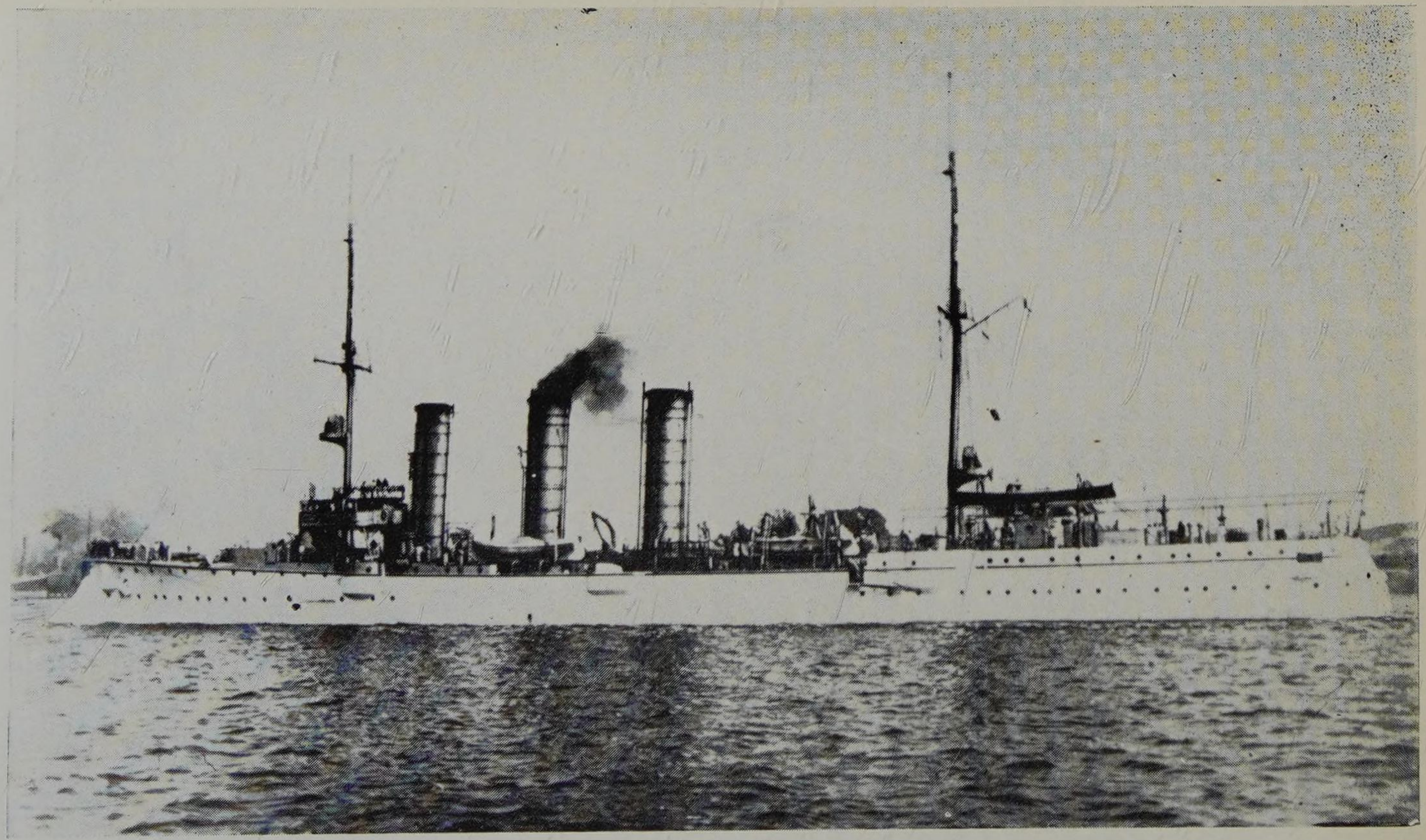
BREMEN	A. G. Weser, Bremen	9. 7.03	17.12.15 mined and sunk, Baltic, with destroyer V191.
BERLIN	Danzig D.Y.	22.9.03	1947 scuttled, Skagerrak, loaded with ammunition
HAMBURG	A. G. Vulcan, Stettin	25.7.03	1956 scrapped, Hamburg,
LÜBECK	A. G. Vulcan, Stettin	26.3.04	1922/23 scrapped, Germany.

MÜNCHEN	A. G. Weser, Bremen	30.4.04	scrapped, U.K.
LEIPZIG	A. G. Weser. Bremen	21.3.05	8.12.14 sunk by gunfire, Falkland Islands, R.N. cruisers CORNWALL, GLASGOW.
DANZIG	Danzig D.Y.	23.9.05	1921/23 scrapped, Whitby

Notes: All completed 1904/07. BREMEN 1904/14 foreign service, 1914/15 refitted Wilhelmshaven D.Y., re-armed 2—5·9 in. (2 × 1), 6—4·1 in. (6 × 1) guns. BERLIN 1911 foreign service, 1912 fleet, 31.5.16 Jutland, 1917 coastal defence, 1921/23 refitted Wilhelmshaven D.Y., given raked bow in place of prominent ram and re-armed 8—4·1 in. (8 × 1) guns, 2—20 in. (deck) T.T., 1923/27 training cruiser—foreign service, 1935 accommodation ship, Kiel. Between 1915/16 used as minelayer—80 mines. HAMBURG 1912 flagship Flag Officer, Submarines, 1914/15 first flagship, then accommodation ship, Wilhelmshaven, for F.O. Submarines, 1925 re-armed as BERLIN, 1926/27 training cruiser, 31.3.31 stricken, 1936 accommodation ship, submarine personnel, Kiel and in 1944, Hamburg, 1944 bombed and sunk, 1949 salved. LÜBECK 1914 coastal defence, 1916 refitted A. G. Vulcan, Stettin, given raked bow, re-armed 2—5·9 in. (2 × 1), 6—4·1 in. (6 × 1) guns, 2—20 in. (deck) T.T., 50 mines, 1917 submarine school target ship, 5.11.19 stricken, 3.9.20 surrendered, to U.K. for scrapping. MÜNCHEN 31.5.16 Jutland, 1918 accommodation ship, 5.11.19 stricken, 6.7.20 surrendered, to U.K. for scrapping. LEIPZIG foreign service to time of loss. DANZIG 1909/14 gunnery training ship, 5.11.19 stricken, 15.9.20 surrendered, to U.K. for scrapping.

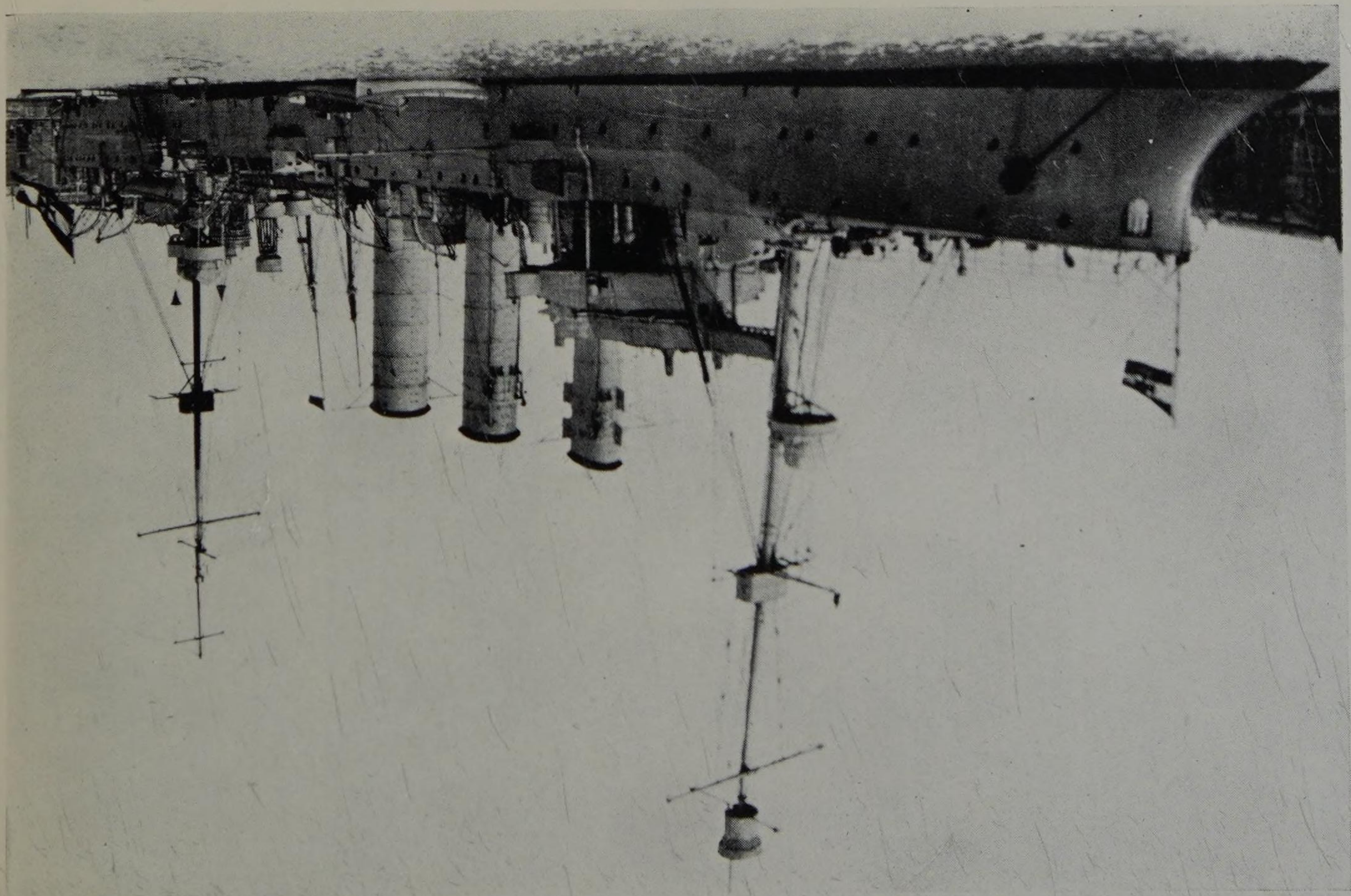


The light cruiser BREMEN, mined and sunk in the Baltic, December 17, 1915. [*P. A. Vicary*



Above: 1912 photograph of LEIPZIG, sunk at the Falklands, December 8, 1914. [*P. A. Vicary*

Below: HAMBURG, which was not scrapped until 1956, after 52 years service in varying roles. Note prominent shape of bows. [*P. A. Vicary*



Konigsberg

Displacement: 3,400 tons.
Dimensions: 378 × 44 × 18 ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 13,200 = 24 knots. Coal fired.
Protection: Deck 2 in.
Armament: 10—4·1 in. (10 × 1) guns: 2—18 in. (submerged) T.T.
Complement: 332.

KONIGSBERG	Kiel D.Y.	12.12.05	1962/63 wreck broken up,

Notes: Completed 1907. 1914 Foreign service—cruiser warfare, 30.10.14 blockaded by R.N. squadron in Rufiji Delta, 11.7.15 destroyed by gunfire R.N. shallow draught monitors SEVERN and MERSEY, guns salved and used by German land forces in East African campaign.

Stettin class

Displacement: 3,550 tons.
Dimensions: 385 × 44 × 17 ft.
Machinery: 2-shaft reciprocating (VTE) engines, I.H.P. 12,000/14,000 × 23/24 knots. STETTIN 4-shaft turbines, S.H.P. 21,000 = 25 knots. Coal fired.
Protection: Deck 2 in.
Armament: 10—4·1 in. (10 × 1) guns: 2—18 in. (submerged) T.T.
Complement: 322.

STETTIN	A. G. Vulcan, Stettin	7.3.07	1921/23 scrapped Copenhagen.
NURNBERG	Kiel D.Y.	29.8.06	8.12.14 sunk by gunfire, Falkland Islands, R.N. cruiser KENT.
STUTTGART	Danzig D.Y.	22.9.06	1923 scrapped, Teignmouth.

Notes: Completed 1907/08. STETTIN 31.5.16 Jutland, 5.11.19 stricken, 15.9.20 surrendered, to U.K. for scrapping. NURNBERG 1910 foreign service to time of loss. STUTTGART 1.2.08 gunnery training ship, 1914 fleet, 31.5.16 Jutland, 1916/18 refitted Wilhelmshaven D.Y., converted to seaplane carrier—4—4·1 in., (4 × 1), 2—3·4 in. (2 × 1) A.A. guns, 3 seaplanes, 5.11.19 stricken, 20.7.20 surrendered, to U.K. for scrapping.

Dresden class

Displacement: 3,650 tons.
Dimensions: 388 × 43 × 17½ ft.

Machinery: DRESDEN 4-shaft turbines, S.H.P. 15,000 = 25 knots. EMDEN 2-shaft Reciprocating (VTE) engines, I.H.P. 13,500 = 24 knots. Coal fired.
Protection: Deck 2 in.
Armament: 10—4·1 in. (10 × 1) guns: 2—18 in. (submerged) T.T.
Complement: 361.

DRESDEN	Blohm & Voss, Hamburg	5.10.07	14.3.15 scuttled, Juan Fernandez Is., after action with R.N.cruisers KENT and GLASGOW
EMDEN	Danzig D.Y.	26. 5.08	9.11.14 total wreck, Cocos-Keeling Is. after action with R.A.N. cruiser SYDNEY, 1950 wreck broken up.

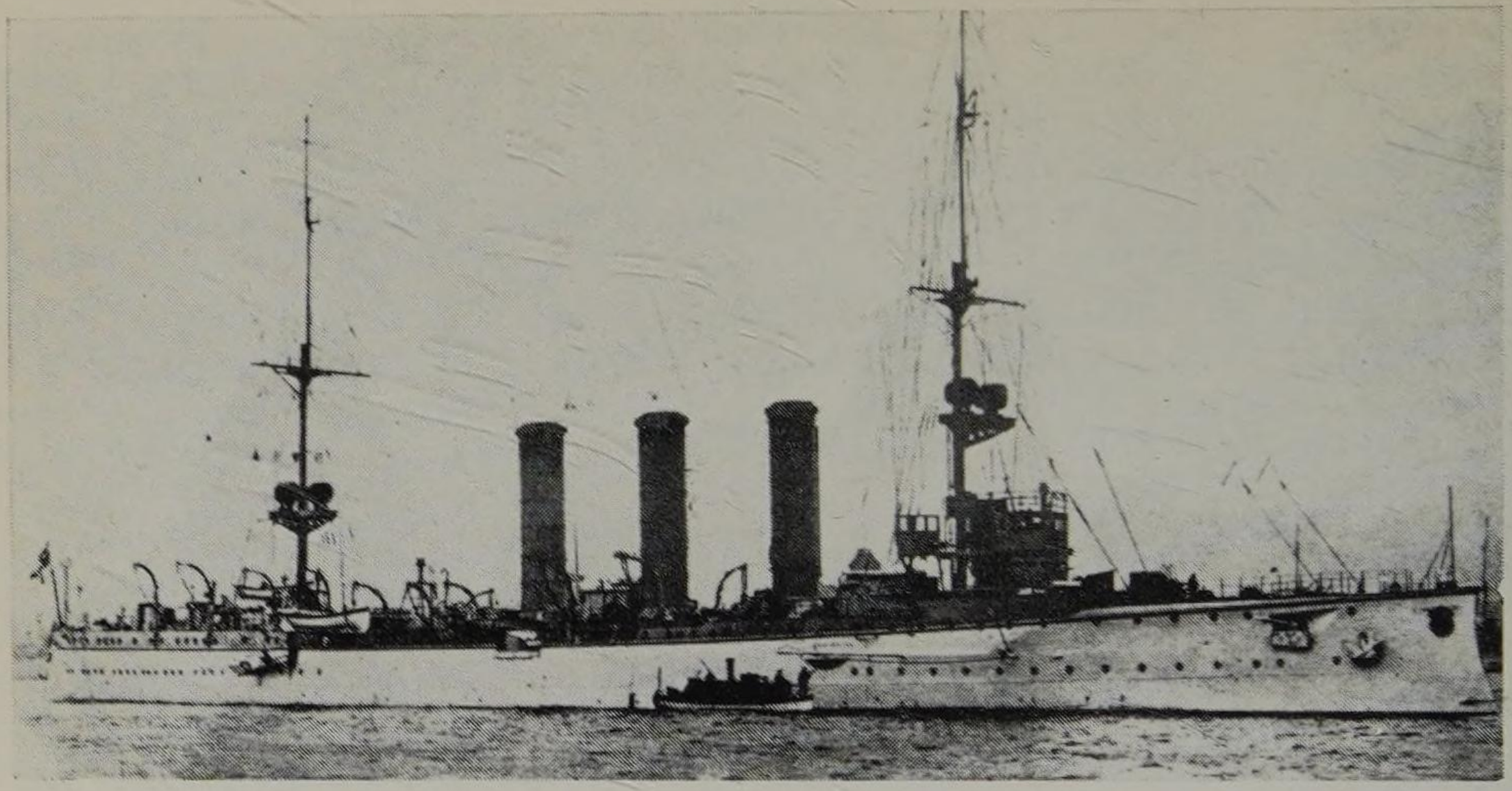
Notes: Completed 1908/09. DRESDEN foreign service, Battles of Coronel and Falkland Islands. EMDEN 1914 foreign service—individual cruiser warfare until loss.

Kolberg class

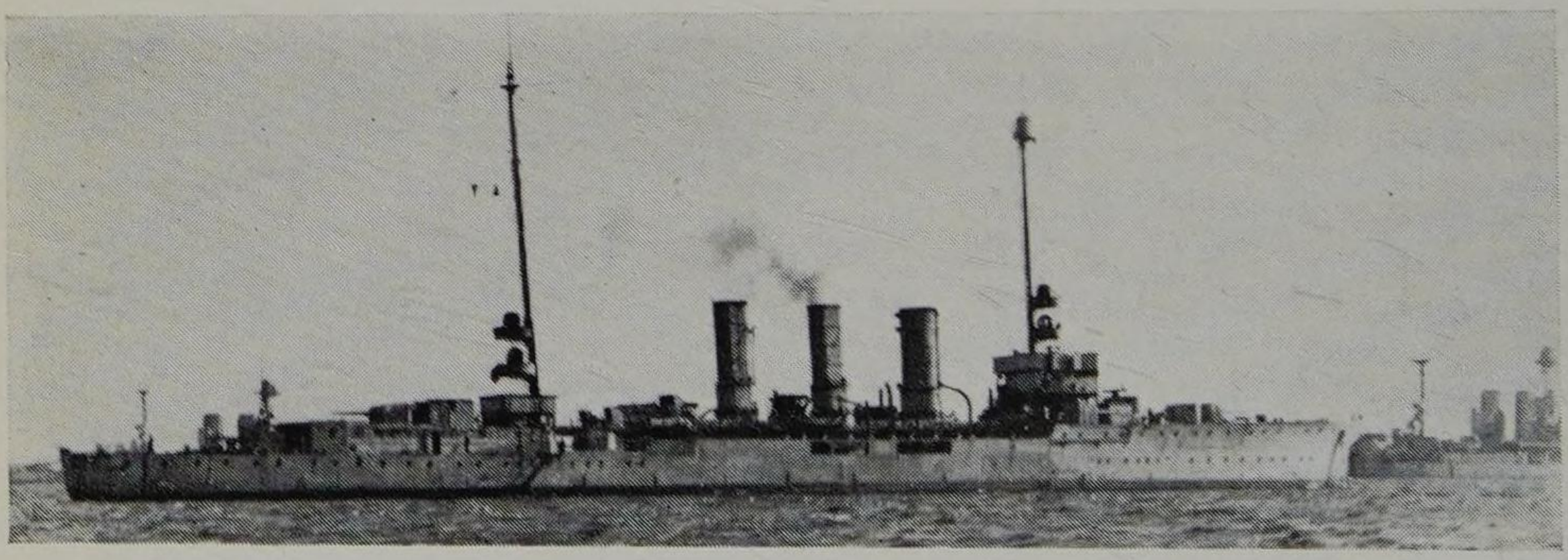
Displacement: 4,350 tons.
Dimensions: 428 × 46 × 17½ ft.
Machinery: 4-shaft (MAINZ-2) turbines, S.H.P. 20,000/31,000 = 25/27¼ knots. Coal fired.
Protection: Deck 2 in.
Armament: 12—4·1 in. (12 × 1) guns: 2—18 in. (submerged) T.T.
Complement: 379.

KOLBERG	Schichau, Danzig	14.11.08	1929 scrapped, Brest.
MAINZ	A. G. Vulcan, Stettin	23. 1.09	28.8.14 sunk Battle of Heligoland Bight.
KÖLN	Germaniawerft, Kiel	5. 6.09	,, ,,
AUGSBURG	Kiel D.Y.	10. 7.09	1922 scrapped Dordrecht

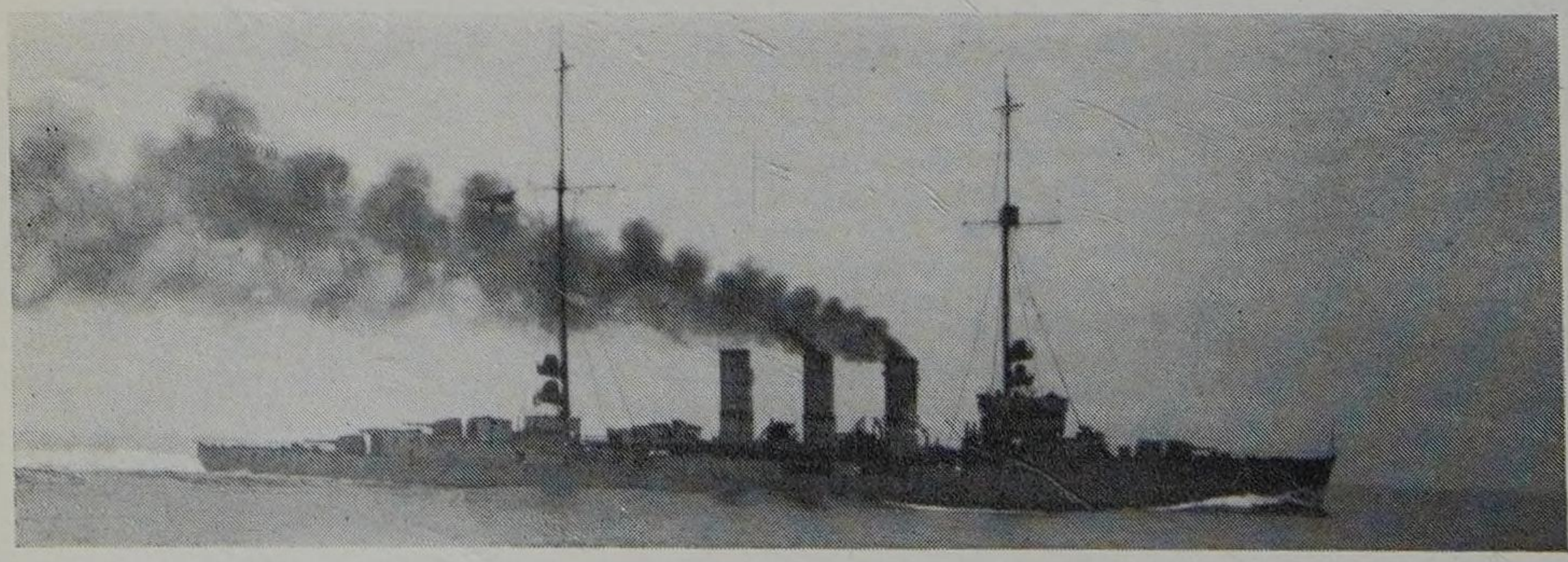
Notes: Completed 1909/10. Most successful class of light cruisers, good seaboats and reliable steamers. KOLBERG 1916/17 refitted Kiel D.Y., re-armed 6—5·9 in. (6 × 1) guns, 2—20 in. (deck) T.T., 100 mines, 1918 2—3·4 in. A.A. guns added, 5.11.19 stricken, 28.4.20 surrendered, Cherbourg, to France as COLMAR, 21.7.27 stricken. AUGSBURG 1.11.10 torpedo experimental ship, 1912 gunnery training ship, 1914 coastal defence, 1916/17 refitted Kiel D.Y. re-armed as KOLBERG, 3.9.20, surrendered, allocated to Japan.



The commerce raider EMDEN, sunk by HMAS SYDNEY at Cocos Island, November 9, 1914.
[*P. A. Vicary*



REGENSBURG at sea. [*Imperial War Museum*



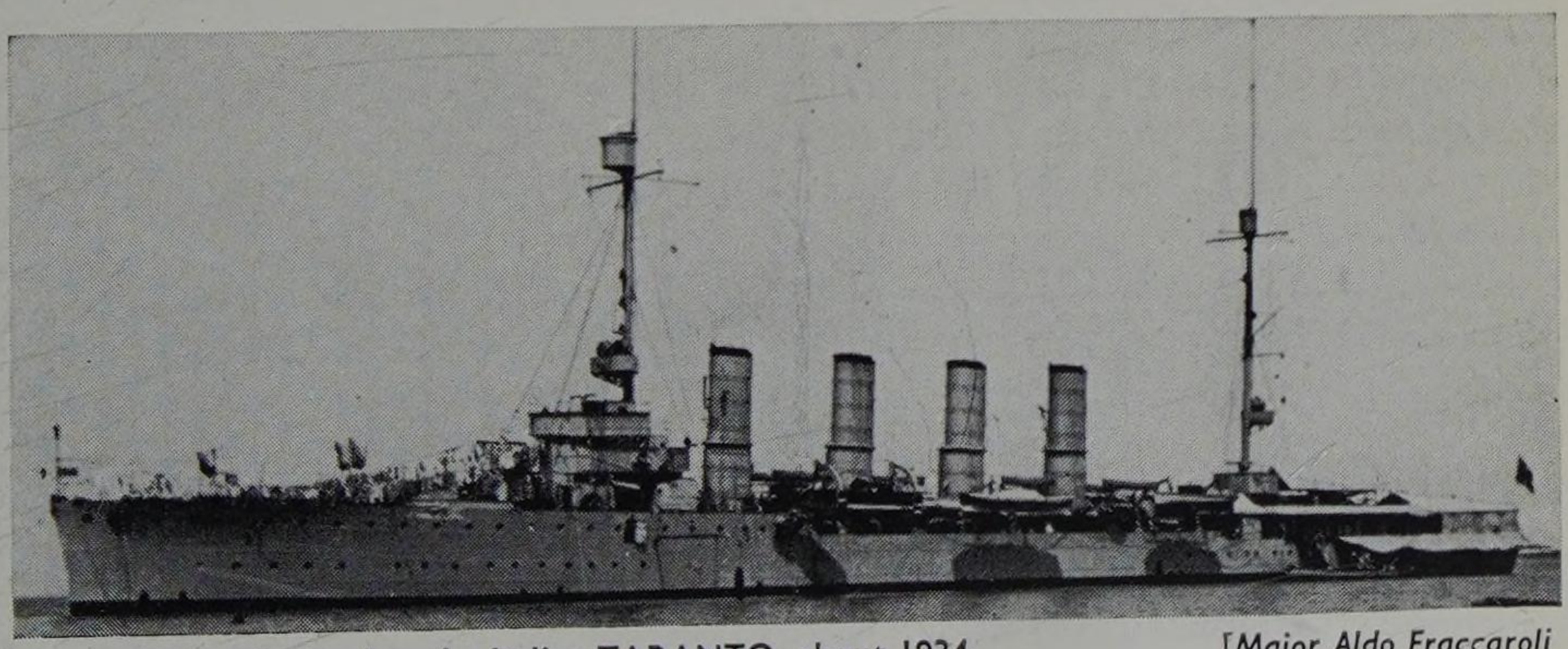
REGENSBURG at Scapa Flow 1919. Later she became the French STRASBOURG
[*P. A. Vicary*

Breslau class

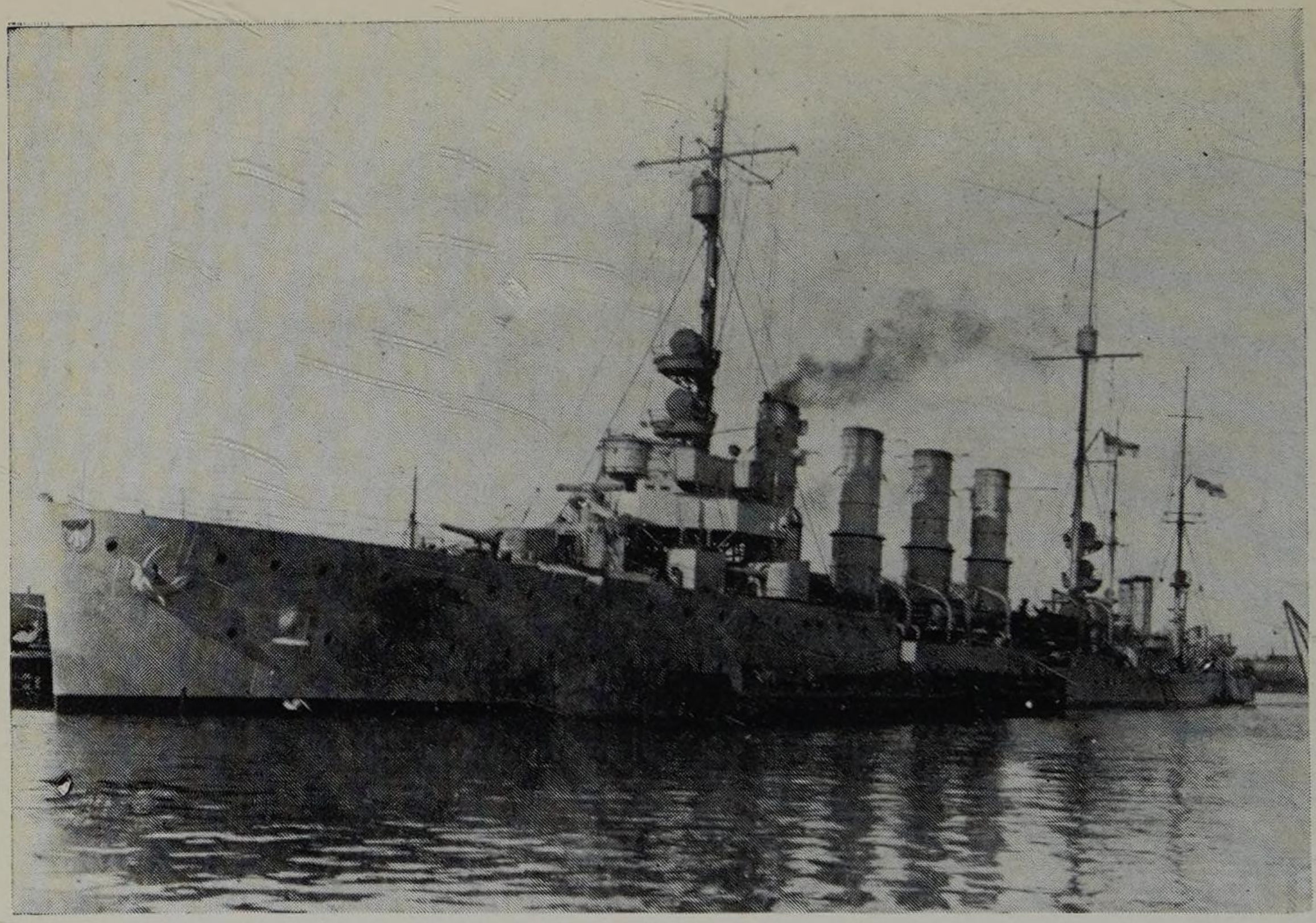
Displacement: 4,550 tons.
Dimensions: 455 × 43½ × 19½ ft.
Machinery: 2-shaft, STRASSBURG; 3-shaft STRALSUND, MAGDEBURG; 4-shaft BRESLAU, turbines, S.H.P. 25,000/35,000 = 27/28 knots. Coal/oil fired.
Protection: Main belt 2¾ in. deck ½ in.
Armament: 12—4·1 in. (12 × 1) guns: 2—20 in. (submerged) T.T.
Complement: 373.

BRESLAU	A. G. Vulcan, Stettin	16. 5.11	20.1.18 mined and sunk, off Imbros.
MAGDEBURG	A. G. Weser, Bremen.	13. 5.11	26.8.14 ran aground in fog, Baltic. Wreck boarded by Russians and destroyed.
STRASSBURG	Wilhelmshaven D.Y.	24. 8.11	23.9.44 bombed and sunk broken up.
STRALSUND	A. G. Weser, Bremen.	4.11.11	1935 scrapped, Brest.

Notes: Completed 1912. Bad seaboats on trials, larger bilge keels fitted to lessen rolling, fast but excessive vibration over 22 knots. BRESLAU to Turkey as MIDILLI, with GOEBEN, 1916 re-armed 2—5·9 in. (2 × 1), 10—4·1 in. (10 × 1) guns and again 1917 8—5·9 in. (8 × 1) guns. MAGDEBURG 1912 torpedo experimental ship, 1914 coastal defence. STRASSBURG 1913/14 foreign service, 1915 refitted Kiel D.Y. and re-armed 7—5·9in. (7 × 1), 2—3·4 in. (2 × 1) A.A. guns, 4—20 in. 2 submerged, 2 deck T.T., 120 mines, 5.11.19 stricken, 20.7.20 surrendered, Cherbourg, to Italy as TARANTO, 9.9.43 scuttled La Spezia, raised, 23.10.43 bombed and sunk, again raised. STRALSUND 1916 refitted Kiel D.Y., 1917 re-armed as STRASSBURG, 5.11.19 stricken, 3.8.20 surrendered, Cherbourg, to France as MULHOUSE.



STRASSBURG, pictured as the Italian TARANTO, about 1934. [*Major Aldo Fraccaroli*



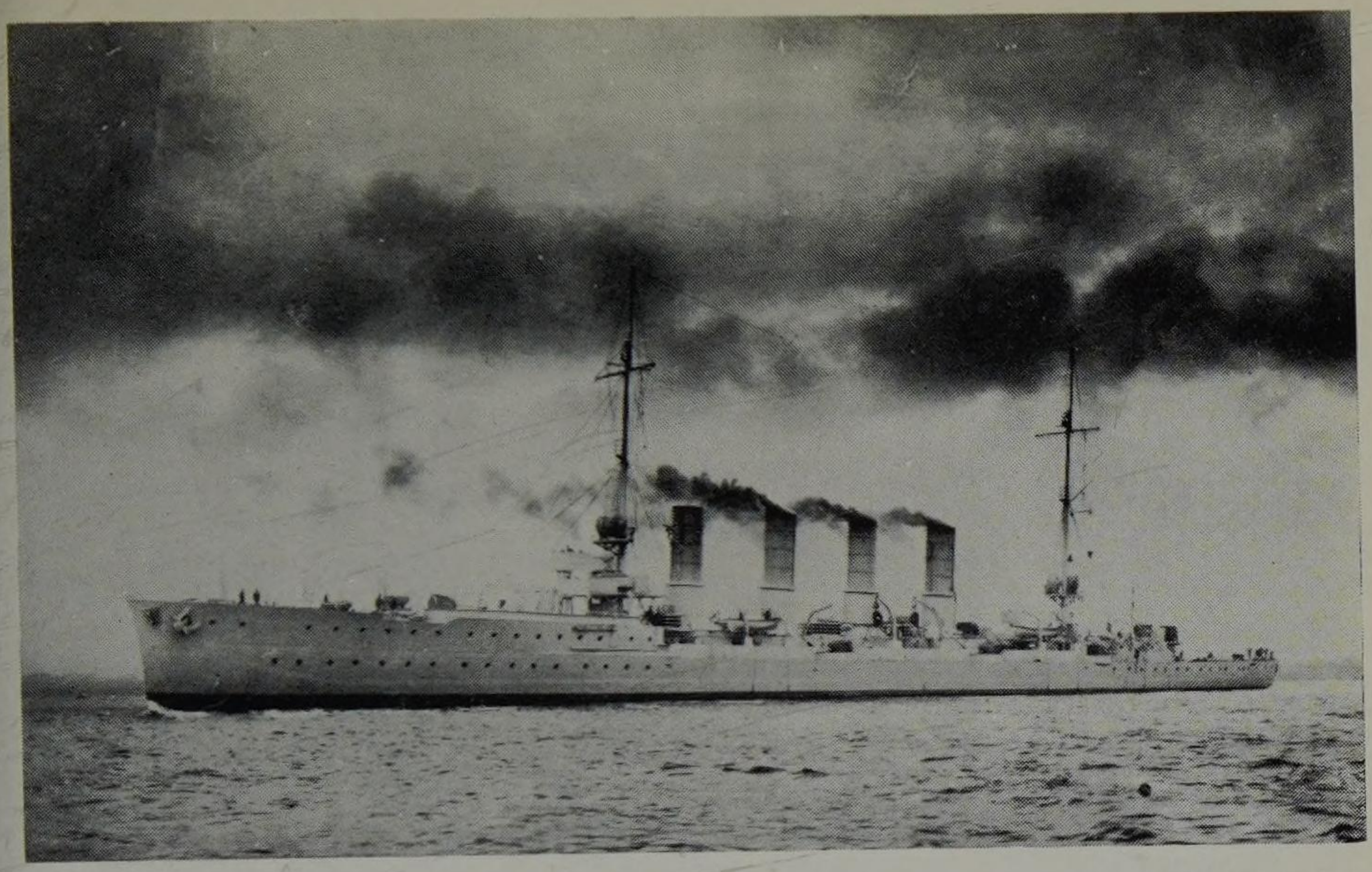
The light cruiser STRALSUND, which in 1920 became the French MULHOUSE.
[*Imperial War Museum*

Karlsruhe class

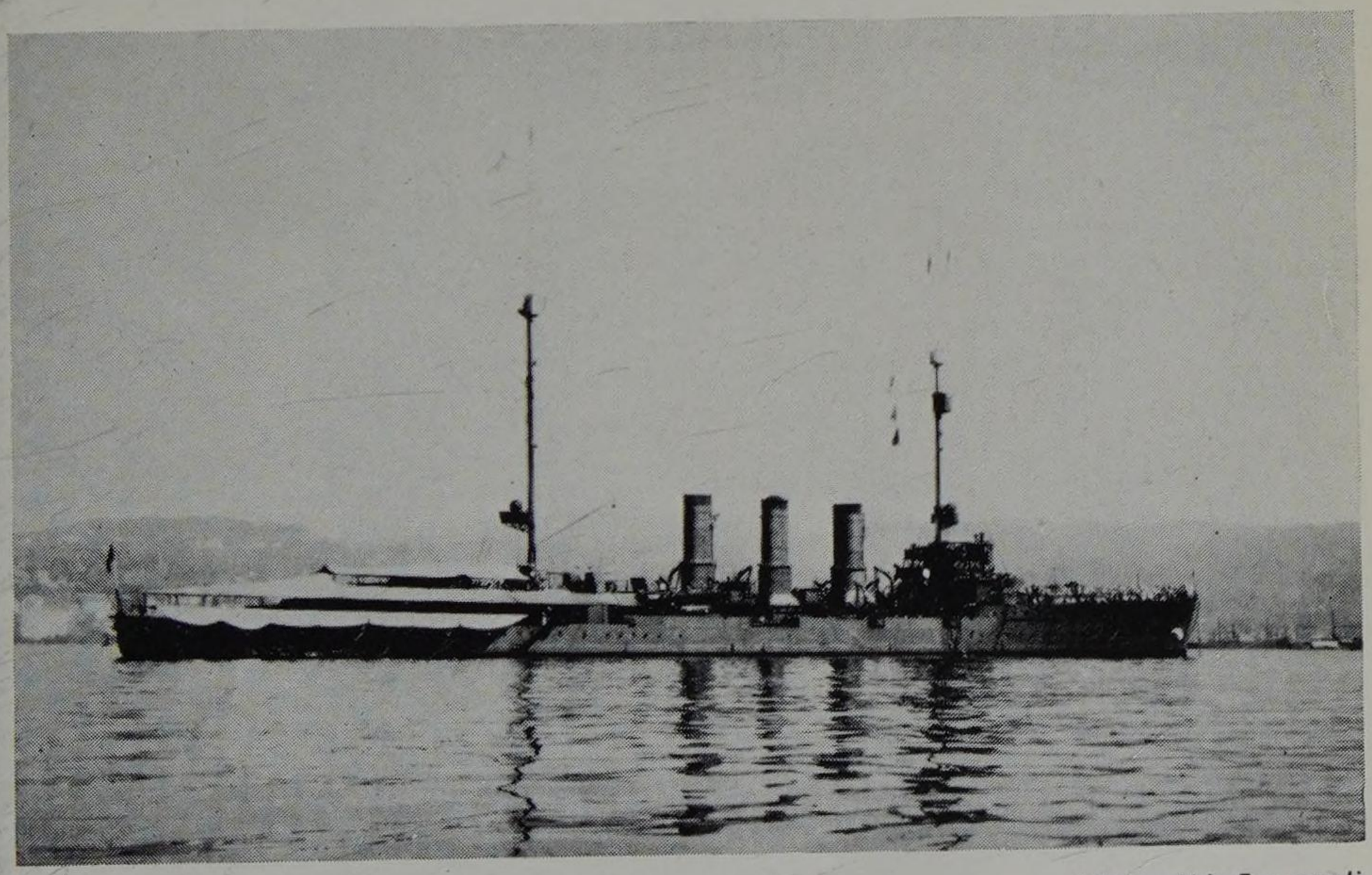
Displacement: 4,900 tons.
Dimensions: 468 × 45 × 20 ft.
Machinery: 2-shaft turbines, S.H.P. 26,000 = 28/29 knots. Coal/oil fired.
Protection: Main belt $2\frac{1}{2}$ in., deck $\frac{3}{4}$ in.
Armament: 12—4·1 in. (12 × 1) guns, 2—20 in. (submerged) T.T.
Complement: 373.

KARLSRUHE	Germaniawerft, Kiel.	11.11.12	4.11.14 destroyed by internal explosion, 200 miles e. of Trinidad.
ROSTOCK	Howaldtswerke, Kiel	12.11.12	1.1.16 torpedoed and sunk, Jutland.

Notes: Completed 1914.



ROSTOCK, torpedoed and sunk at Jutland. [*Imperial War Museum*



GRAUDENZ, pictured as the Italian ANCONA in 1930. [*Major Aldo Fraccaroli*

Regensburg class

Displacement: 4,900 tons.
Dimensions: 486 × 45 × 19½ ft.
Machinery: 2-shaft turbines, S.H.P. 26,000/32,000 = 27/28 knots. Coal/oil fired.
Protection: Belt 2½ in., deck ¾ in.
Armament: 12—4·1 in. (12 × 1) guns: 2—20 in. (submerged) T.T.
Complement: 385.

REGENSBURG	A. G. Weser, Bremen	25. 4.14	1944 scrapped, Lorient.
GRAUDENZ	Kiel D.Y.	25.10.13	1938 scrapped.

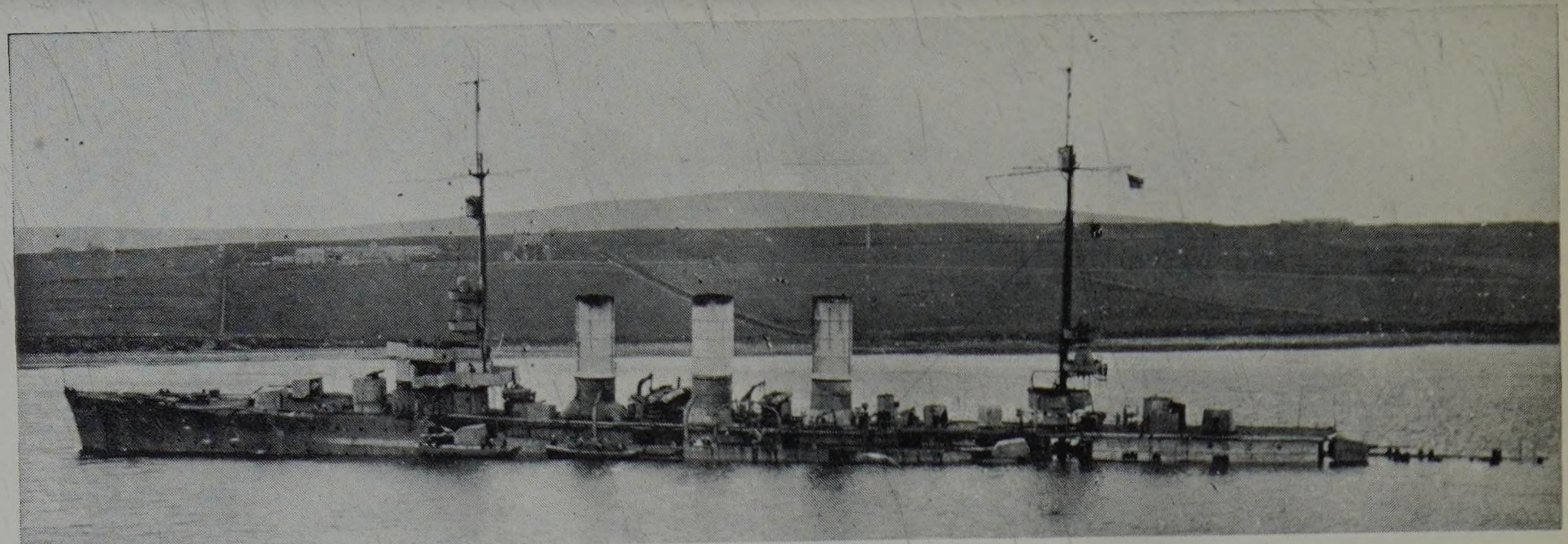
Notes: Completed 1914/15, very similar to KARLSRUHE class but with three funnels instead of four. REGENSBURG 31.5.16, Jutland, Refitted 1917 Kiel D.Y., re-armed 7—5·9 in. (7 × 1) guns 2—3·4 in (2 × 1) A.A. guns, 2 additional 20 in. (deck) T.T., 5.11.19 stricken, 4.6.20 surrendered, Cherbourg, to France as STRASBOURG, 1934 accommodation ship, Lorient. GRAUDENZ 1915/16 refitted Kiel D.Y., re-armed 7—5·9 in. (7 × 1), 2—3·4 in. (2 × 1) A.A. guns, 4—20 in. (deck) T.T., 120 mines, 5.11.19 stricken, 1.6.20 surrendered, Cherbourg, to Italy as ANCONA.

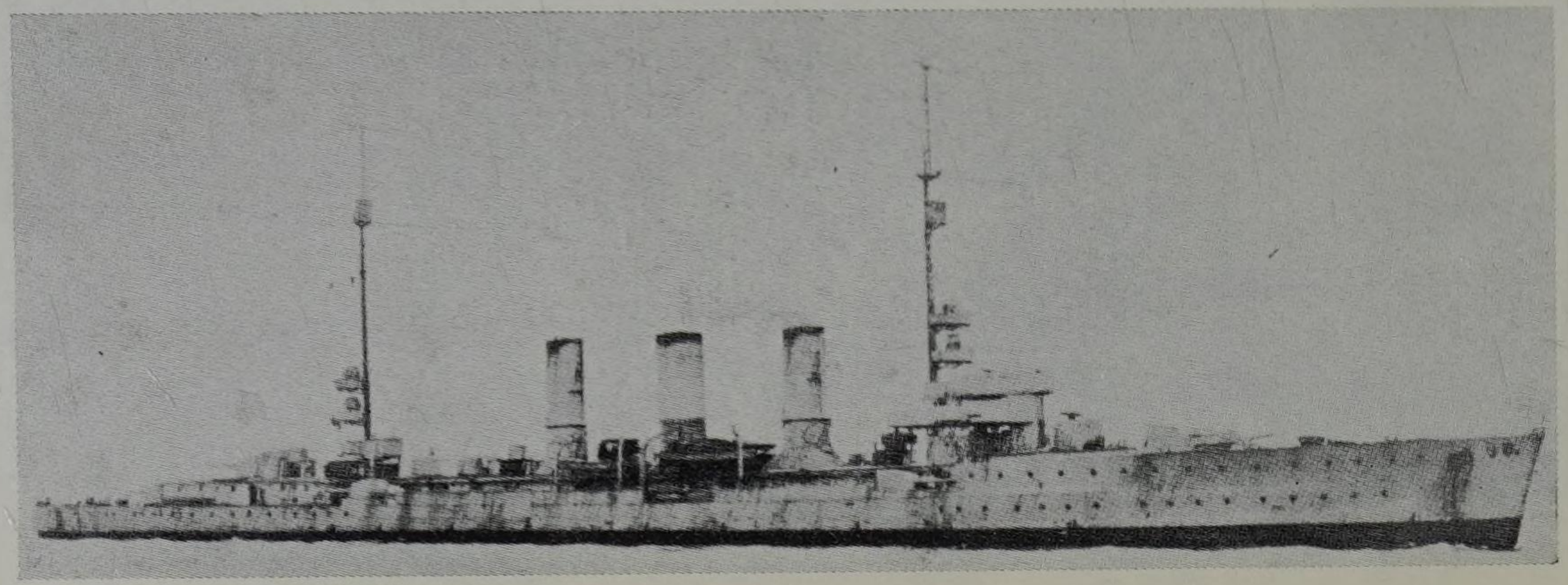
Frankfurt class

Displacement: 5,200 tons.
Dimensions: 477 × 45½ × 19½ ft.
Machinery: 2-shaft geared turbines, S.H.P. 31,000 = 27½ knots. Coal/oil fired.
Protection: Belt, 2½ in., deck ¾ in.
Armament: 8—5·9 in. (8 × 1), 2—3·4 in. (2 × 1) A.A. guns: 4—20 in. (2 deck, 2 submerged) T.T., 120 mines.
Complement: 474.

FRANKFURT	Kiel D.Y.	20.3.15	18.7.21 sunk in aerial bombing experiments off Cape Henry, U.S.A.
WIESBADEN	A. G. Vulcan, Stettin	30.1.15	1.6.16 sunk, Jutland.

Notes: Completed 1915. FRANKFURT 31.5.16 Jutland, 26.11.18 interned Scapa Flow, 21.6.19 scuttled but beached by British ships 7/19 salved, to U.S.A.





FRANKFURT beached at Scapa 1919; later she was salved and taken to the USA to be sunk in aerial bombing experiments. [*P. A. Vicary*

FRANKFURT at Scapa before the scuttling.

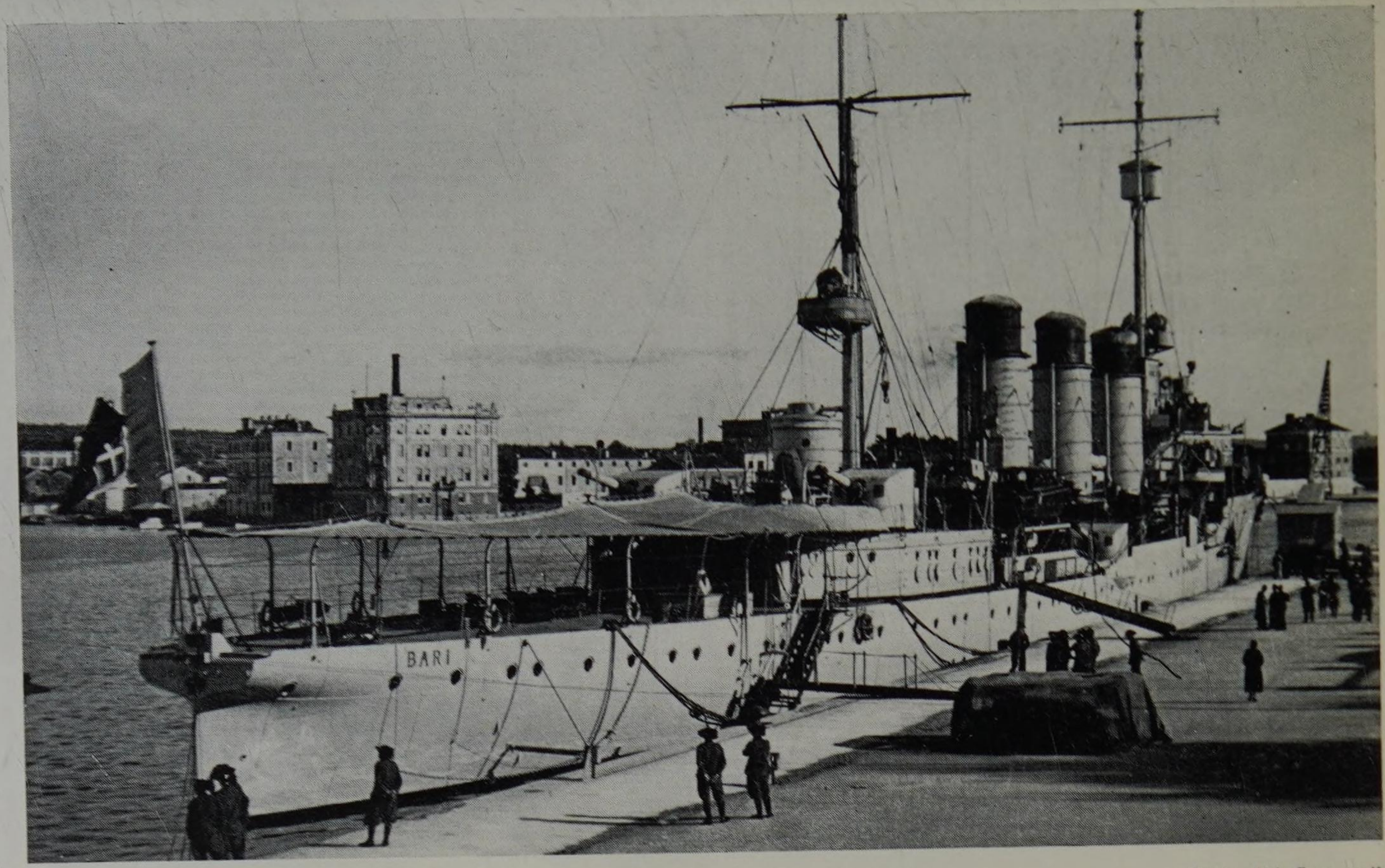
Elbing class

Displacement: 4,400 tons.
Dimensions: 444 × 45 × 17½ ft.
Machinery: 2-shaft turbines, S.H.P. 30,000 = 27½ knots. Coal/oil fired.
Protection: Deck 3 in.
Armament: 8—5·9 in. (8 × 1), 2—3·4 in. (2 × 1) A.A. guns: 2—20 in. (deck) T.T., 120 mines.
Complement: 442.

ELBING	Schichau, Danzig	21.11.14	1.6.16 sunk, Jutland collision with German battleship POSEN after battle damage.
PILLAU	,,	11. 4.14	9/43 bombed and sunk, Livorno, wreck broken up.

Notes: Completed 1914. Building for Russia. Design based on KOLBERG class. PILLAU ex-MURAWJEW AMURSKI taken over 5.8.14, 31.5.16 Jutland, 5.11.19 stricken, 20.7.20 surrendered Cherbourg, to Italy as BARI. ELBING ex-NEVELSKOY taken over 5.8.14.

PILLAU, pictured about 1928 as the Italian cruiser BARI. [*Major Aldo Fraccaroli*



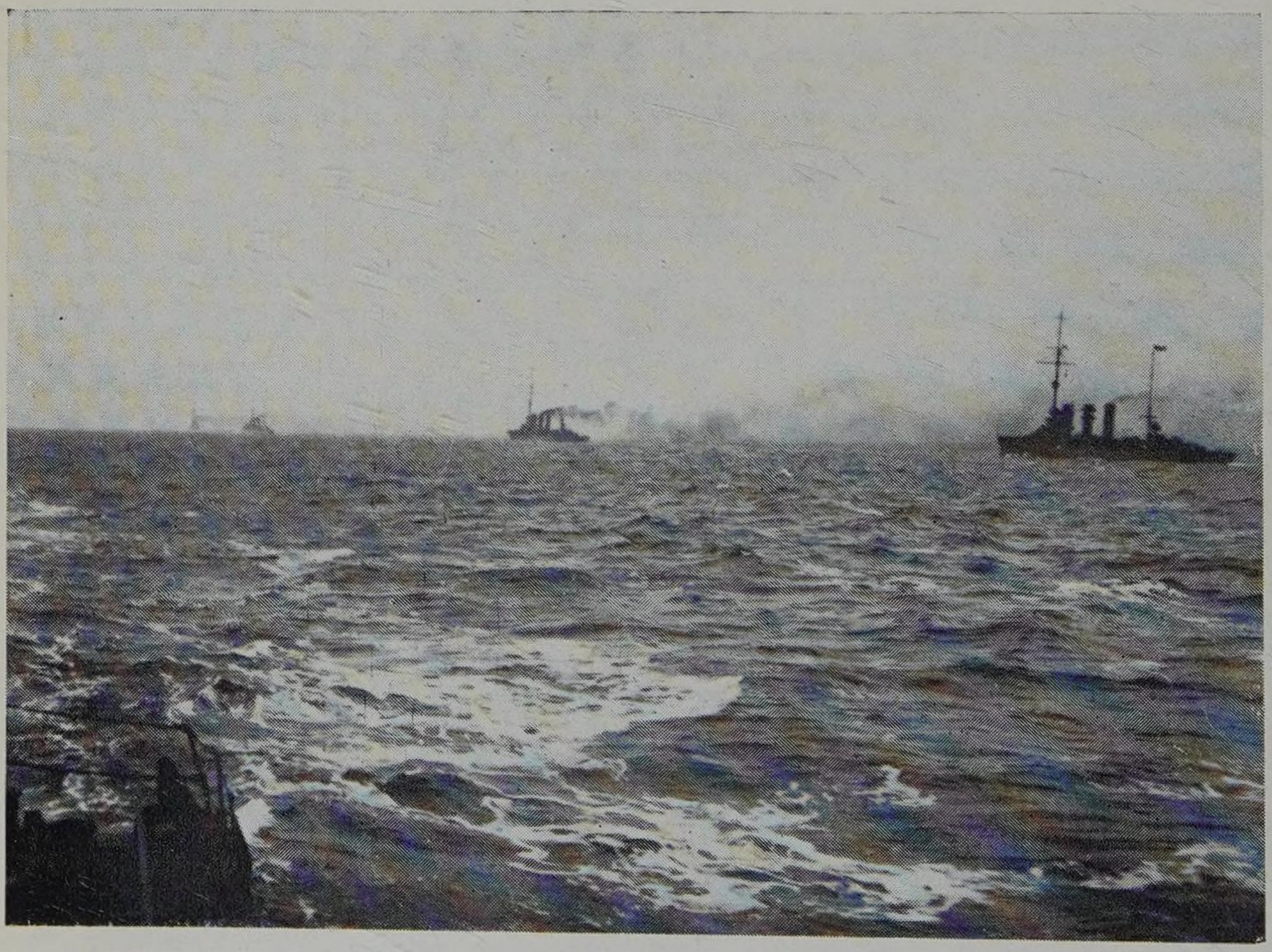
BARI, ex-PILLAU as further refitted in 1933. She was finally sunk by bombing in September 1943. [*Major Aldo Fraccaroli*

Bremse class

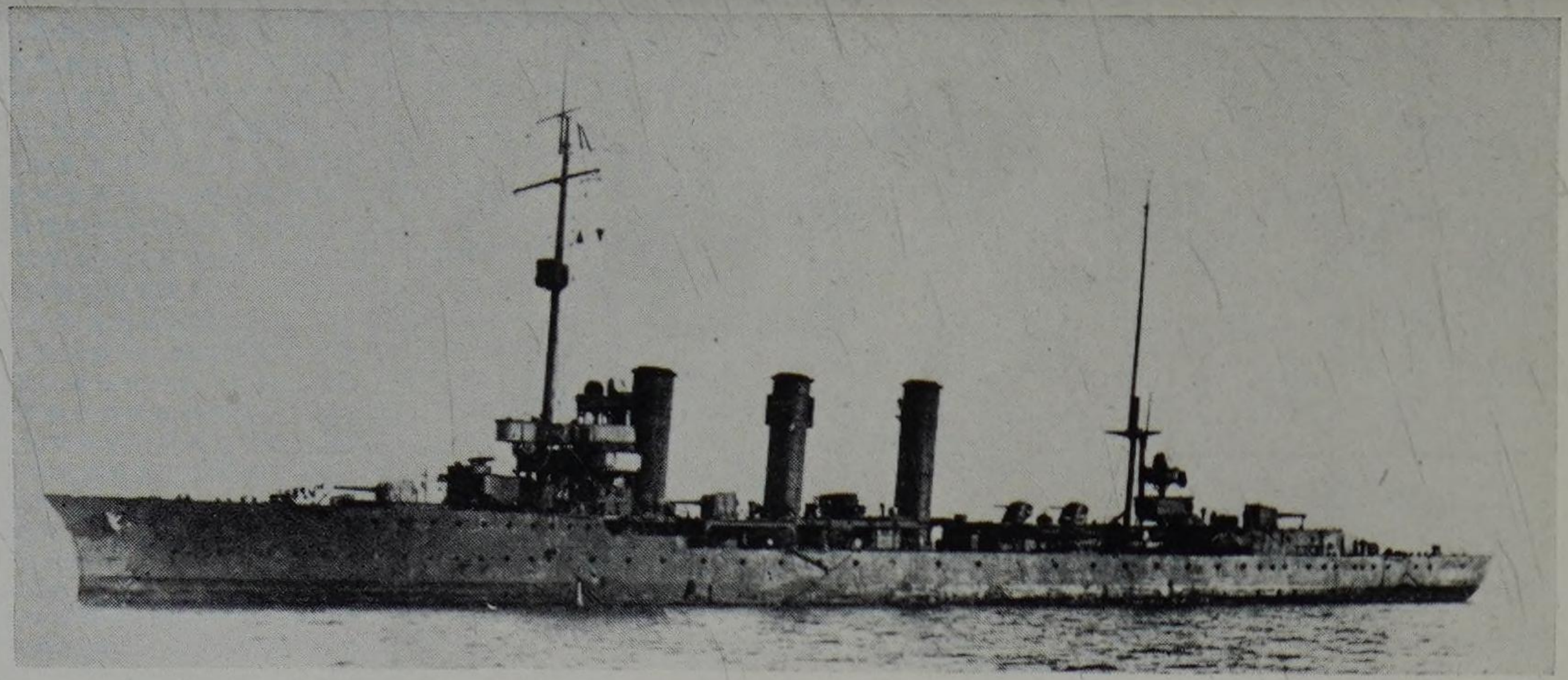
Displacement: 4,400 tons.
Dimensions: $460\frac{1}{2} \times 44 \times 19\frac{1}{2}$ ft.
Machinery: 2-shaft turbines, S.H.P. 47,000 = 28 knots. Coal/oil fired.
Protection: Belt $1\frac{1}{2}$ in., deck $\frac{5}{8}$ in.
Armament: 4—5·9 in. (4 × 1), 2—3·4 in. (2 × 1) A.A. guns: 2—20 in. (deck) T.T., 400 mines.
Complement: 309.

BREMSE	A. G. Vulcan, Stettin	11. 3.16	21.6.19 scuttled, Scapa Flow, 1929 raised, broken up Lyness.
BRUMMER	,,	11.12.15	,, ,,

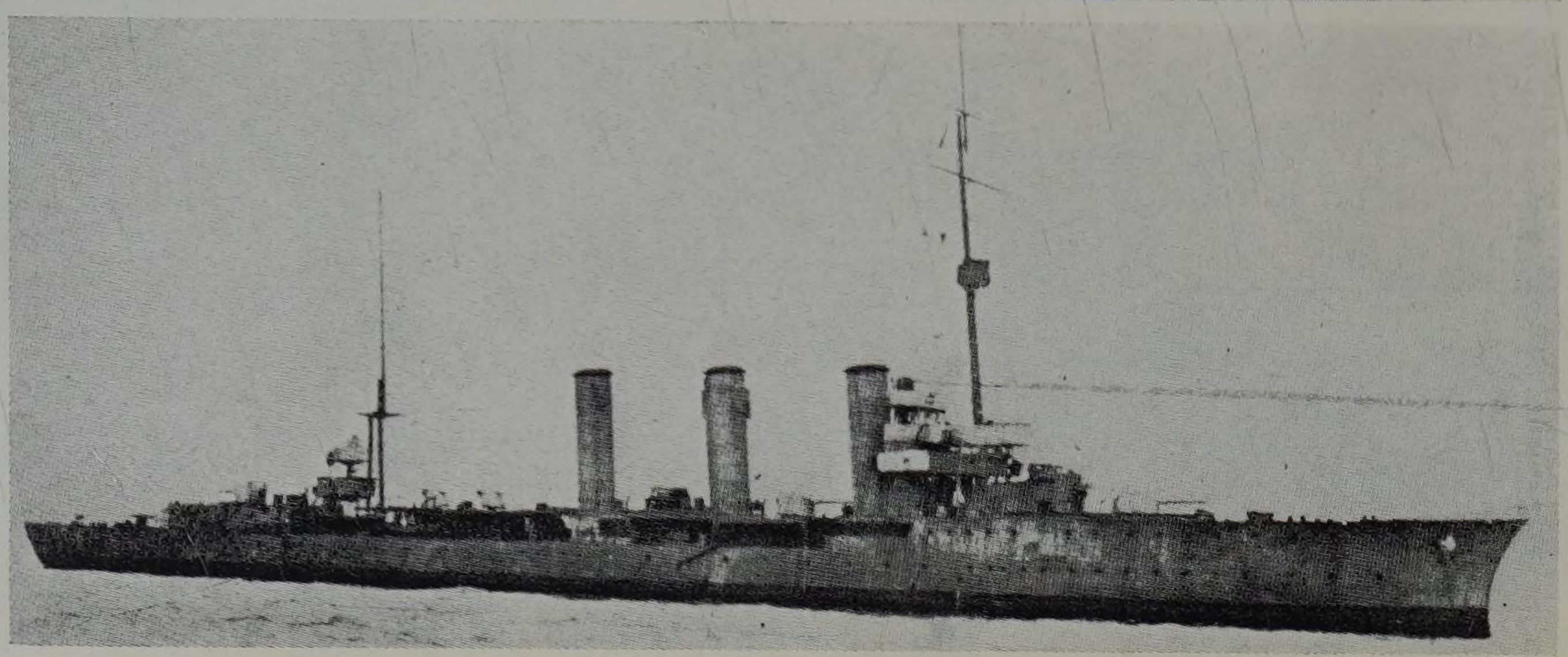
Notes: Completed 1916. The first fast minelayer-cruisers to be designed as such. Mainmast could be lowered to aid disguise. Both interned Scapa Flow 26.11.18.



Light cruisers en route to surrender, BRUMMER and BREMSE nearest. [*Imperial War Museum*



BRUMMER, one of the first fast minelaying cruisers, Scapa Flow 1918. [*P. A. Vicary*



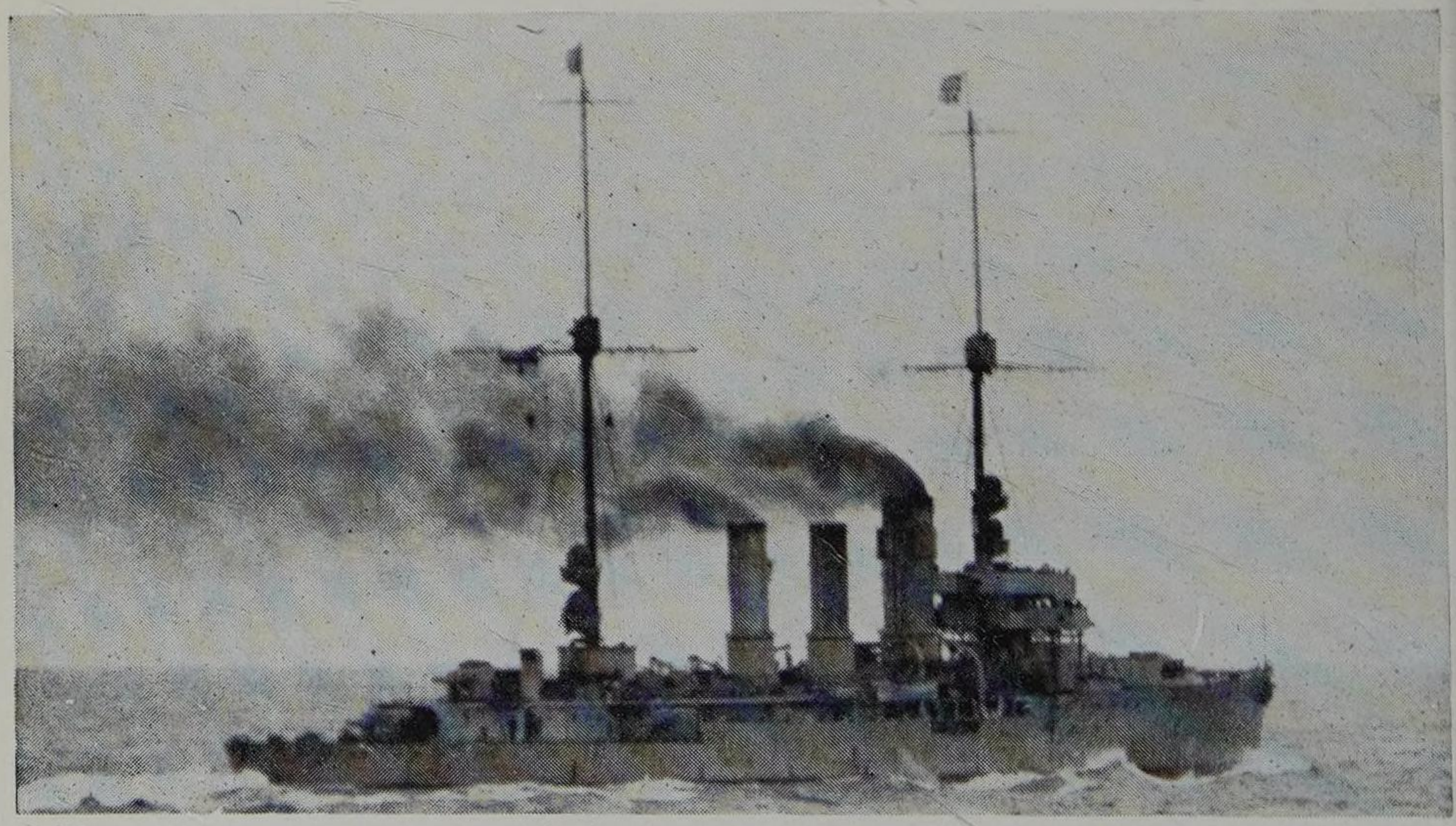
BREMSE, sister ship of BRUMMER.

Konigsberg (II) class

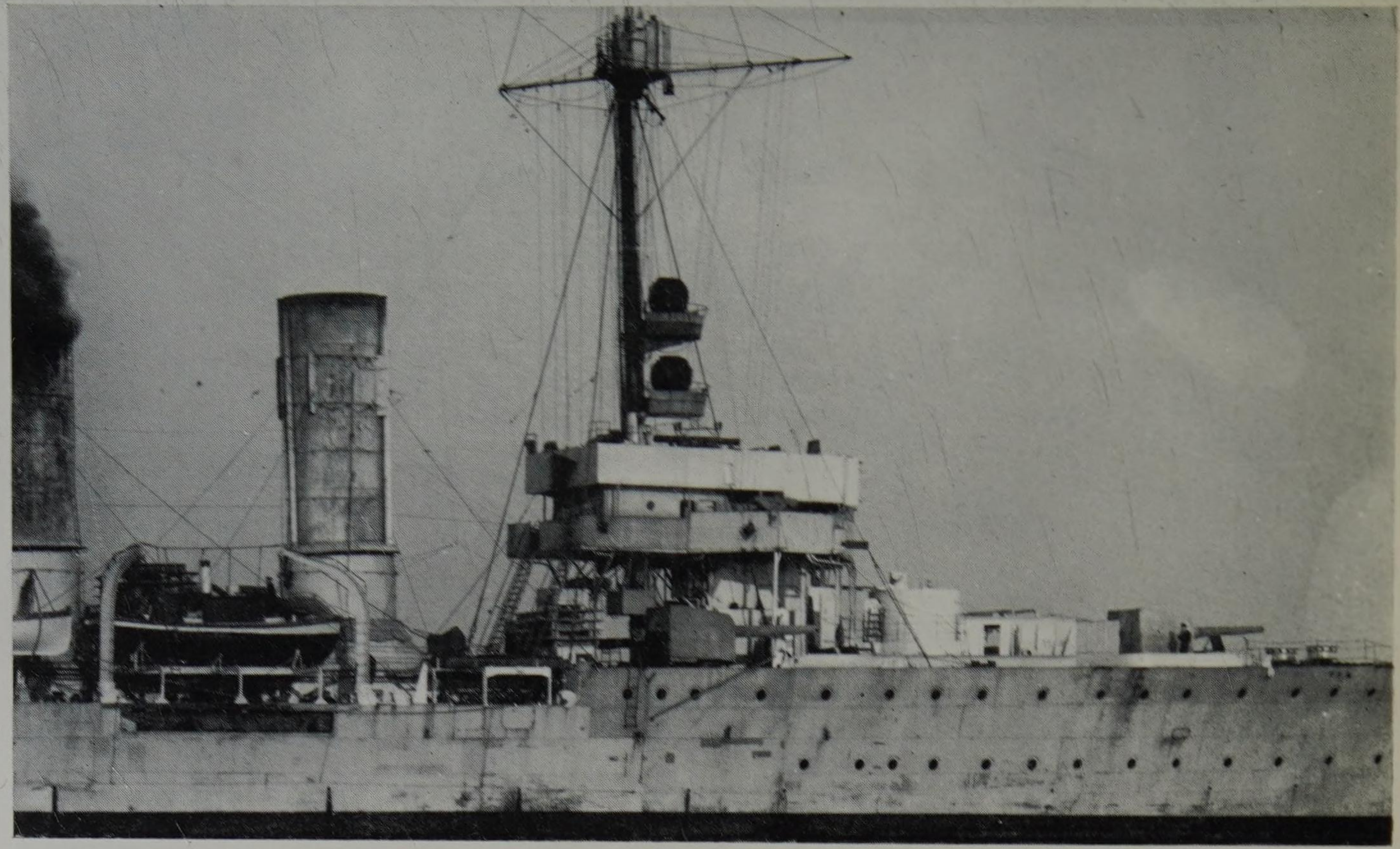
Displacement: 5,440 tons.
Dimensions: 495½ × 47 × 21 ft.
Machinery: 2-shaft turbines (KARLSRUHE geared) S.H.P. 31,000 = 27/28 knots. Coal/oil fired.
Protection: Belt 2½ in., deck ¾ in.
Armament: 8—5·9 in. (8 × 1), 2—3·4 in. (2 × 1) A.A. guns: 4—24 in. (2 deck, 2 submerged) T.T., 200 mines.
Complement: 475.

KÖNIGSBERG	A. G. Weser, Bremen	18.12.15	1936 scrapped, Brest.
EMDEN	A. G. Weser, Bremen	1. 2.16	1926 scrapped, Caen.
KARLSRUHE	Wilhelmshaven D.Y.	31. 1.16	21.6.19 scuttled, Scapa Flow.
NÜRNBERG	Howaldtswerke, Kiel	14. 4.16	7.7.22 sunk by gunfire as target off Isle of Wight.

Notes: Completed 1916/17. KÖNIGSBERG 5.11.19 stricken, 20.7.20 surrendered Cherbourg, to France as METZ. EMDEN 26.11.18 interned Scapa Flow, 21.6.19 scuttled but towed to land in sinking condition by British ships, 11.3.20 to France. KARLSRUHE 26.11.18 interned Scapa Flow. NÜRNBERG 26.11.18 interned Scapa Flow, 21.6.19 scuttled but beached, 7/19 salved.

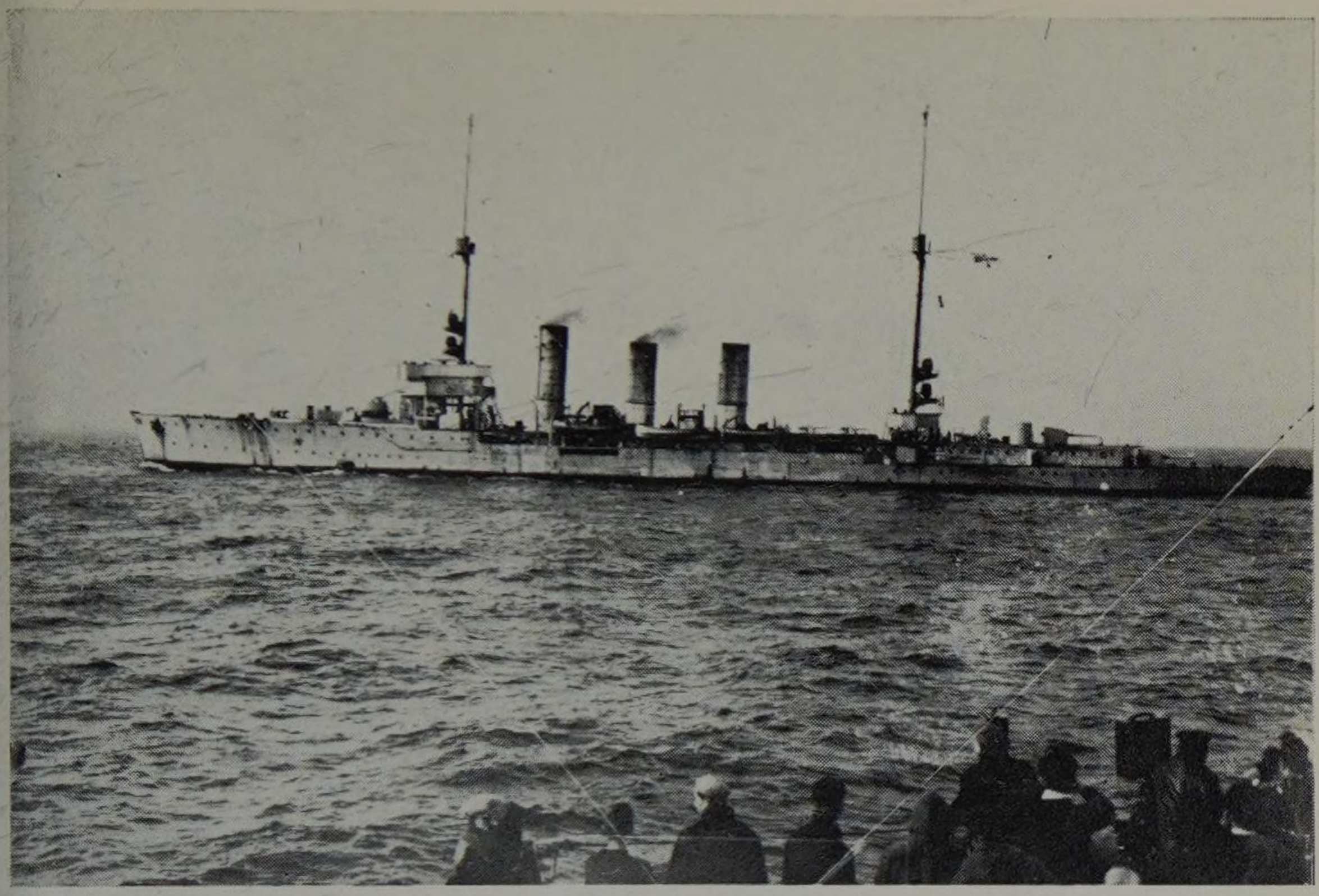


KÖNIGSBERG, second ship of the name, flying flag of Admiral von Meurer leaving Forth after discussion with Admiral Beatty aboard HMS QUEEN ELIZABETH to arrange surrender of the German Fleet, November 1918. [*P. A. Vicary*

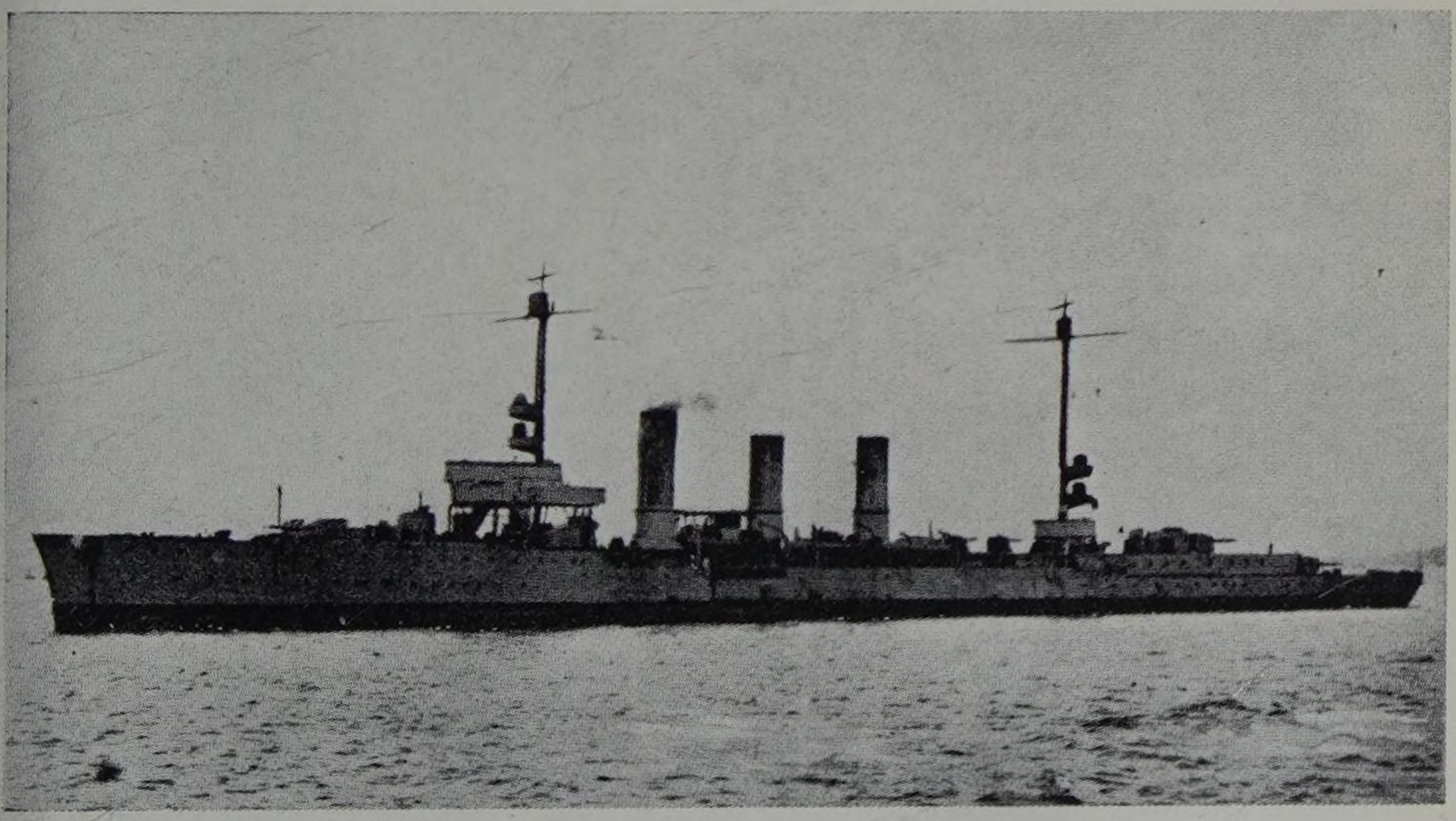


A detail photograph of KÖNIGSBERG. Later she became the French cruiser METZ. [*Imperial War Museum*

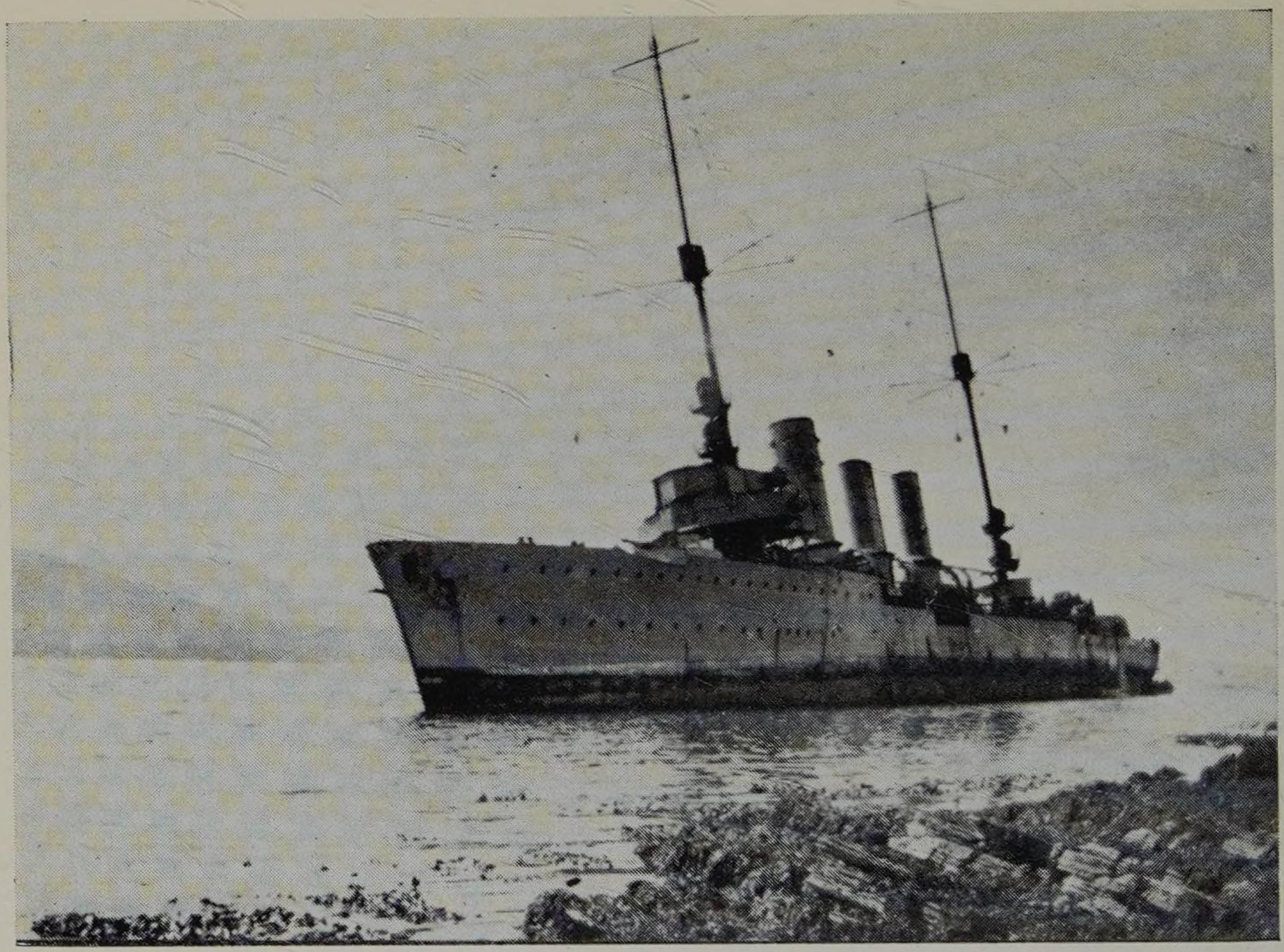
A 1918 photograph of the second EMDEN. [*P. A. Vicary*



EMDEN, still flying German Imperial Naval ensign, at the surrender of the German Fleet.
[Imperial War Museum



The second KARLSRUHE, with topmasts lowered at Scapa 1919.



NURNBERG, beached on Cava Island, June 1919. [*P. A. Vicary*

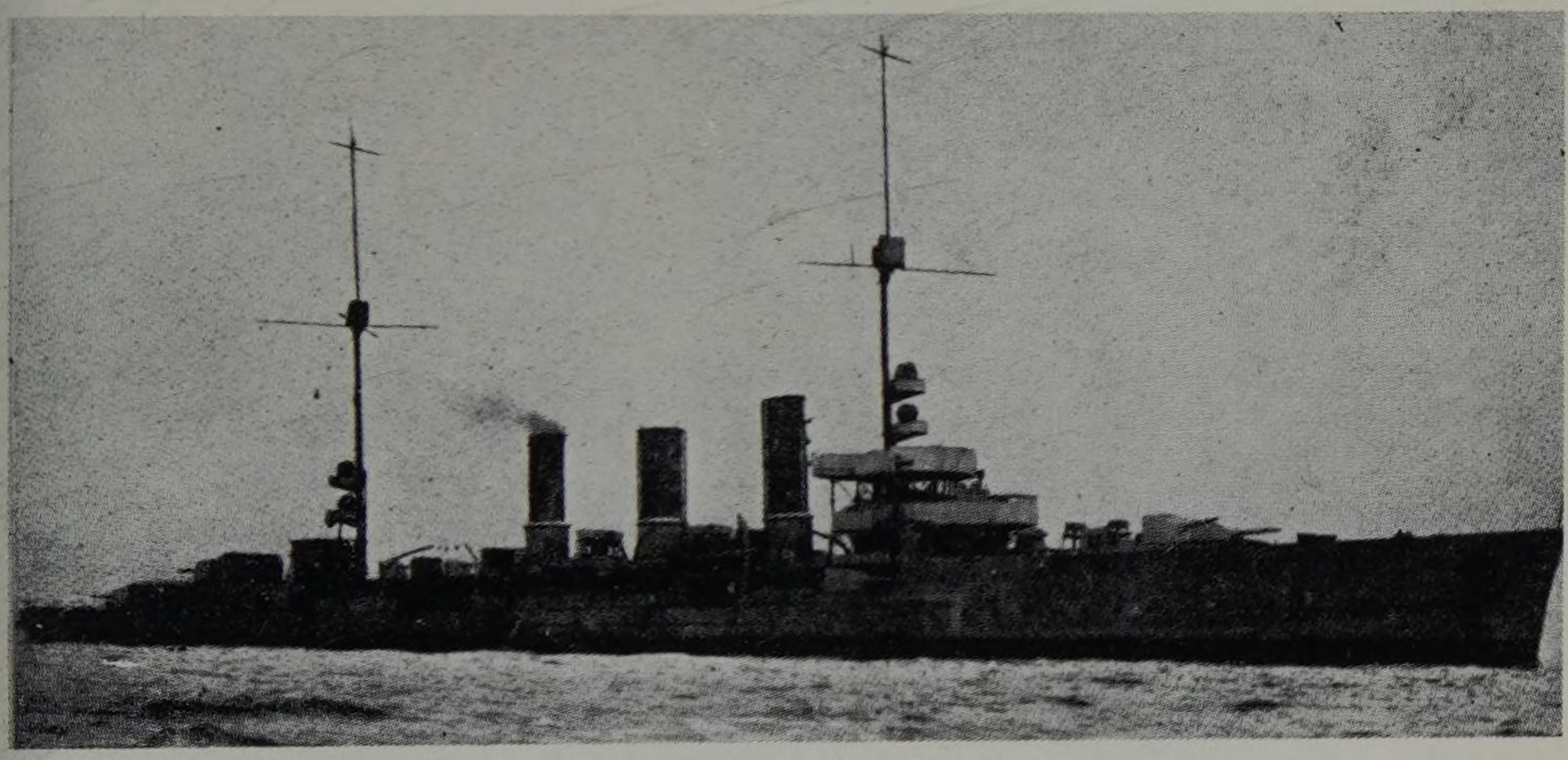
Dresden (II) class

Displacement: 5,600 tons.
Dimensions: 511½ × 47 × 21 ft.
Machinery: 2-shaft geared turbines, S.H.P. 49,000 = 27/29 knots. Coal/oil fired.
Protection: Belt 2—2½ in., deck ¾ in.
Armament: 8—5·9 in. (8 × 1), 3—3·4 in. (3 × 1) A.A. guns: 4—24 in. (deck) T.T., 200 mines.
Complement: 559.

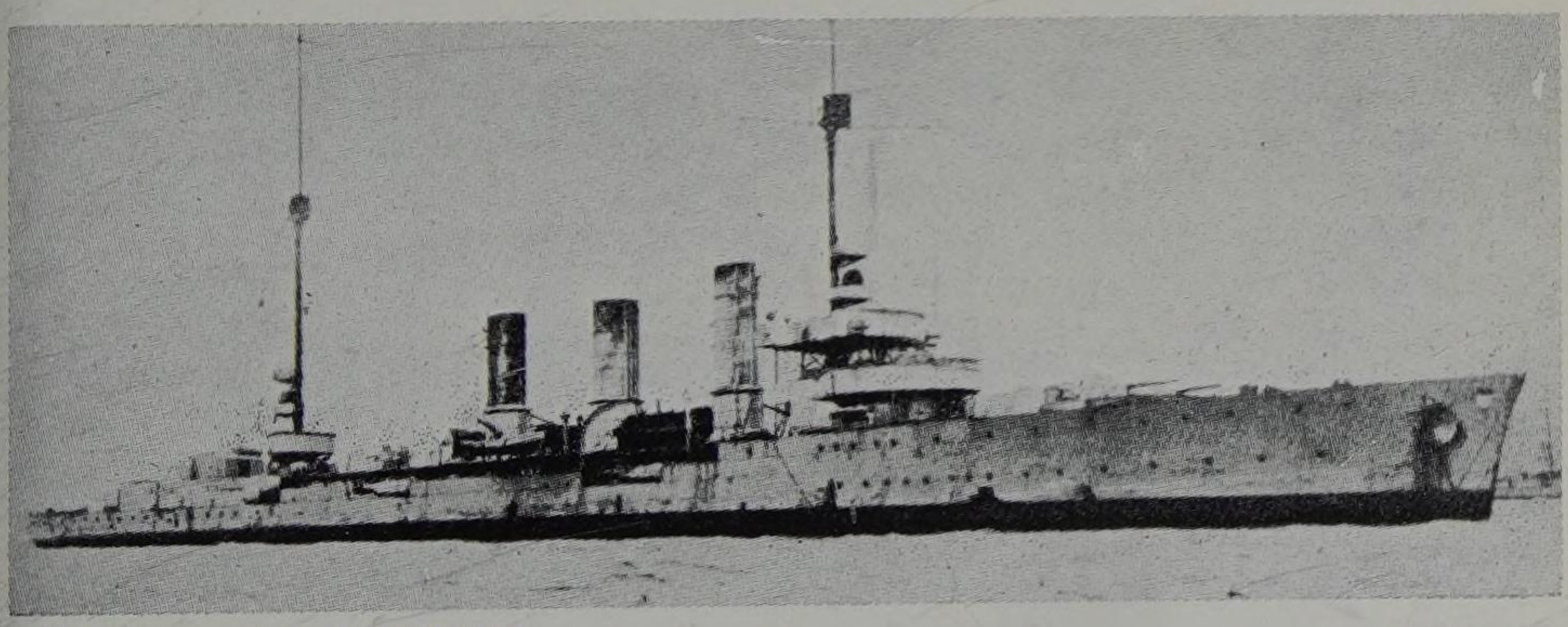
DRESDEN	Howaldtswerke, Kiel	25. 4.17	21.6.19 scuttled, Scapa Flow.
KÖLN	Blohm & Voss Hamburg	5.10.16	,, ,,
WIESBADEN	A. G. Vulcan, Stettin	3. 3.17	1920 scrapped.
MAGDEBURG	Howaldtswerke. Kiel	17.11.17	1922 scrapped, Kiel.
LEIPZIG	A. G. Weser, Bremen	28. 1.18	1921 scrapped, Hamburg,

ROSTOCK	A. G. Vulcan, Stetitn	6. 4.18	,, ,,
FRAUENLOB	Kiel D.Y.	16.10.18	1921 scrapped, Kiel.
ERSATZ KOLN	A. G. Weser, Bremen	—	Not launched, broken up on stocks.
ERSATZ EMDEN	A. G. Weser, Bremen	—	,, ,,
ERSATZ KARLSRUHE	Kiel D.Y.	—	,, ,,

Notes: Completed 1918. KÖLN interned Scapa Flow 26.11.18. DRESDEN not ready to sail with rest of fleet and arrived 6.12.18. All others stricken 17.11.19. WIESBADEN, MAGDEBURG, LEIPZIG, ROSTOCK, FRAUENLOB launched, but scrapped before completion.



DRESDEN, second ship of the name and one of the last class of German light cruisers.



KÖLN, sister ship of DRESDEN.

PART 3 — DESTROYERS AND TORPEDO BOATS

Admiral von Tirpitz had been a torpedo specialist and great and early attention was paid to building up the German destroyer and torpedo boat forces. The main aim was to deliver massed torpedo attacks and for this reason the boats carried a torpedo armament generally larger than contemporary British destroyers, beating off destroyer attacks was considered of lesser importance than in the R.N.

There was less distinction between torpedo boats and destroyers and in fact the latter were termed "Large Torpedo Boats" (Grosse Torpedoboote) and the term Destroyer (Zerstorer) was not adopted until the B.97 class was laid down in 1914/15. At the other end of the scale the large boats designed as flotilla leaders of the S.113 class were the largest destroyers built during World War I, carrying a gun armament of 4—5·9 inch guns.

Before, and in the earlier part of the war building was confined to three yards—Schichau, Elbing; Germaniawerft, Kiel (Krupp); and A. G. Vulcan, Stettin. Later a smaller number came from Blohm & Voss, Hamburg and Howaldtswerke, Kiel, while a solitary boat was laid down by Wilhelmshaven Dockyard.

Torpedo craft were not named, merely carrying a consecutive number, prefaced by a letter, this letter denoting the builder, as under:—

G	—	Germaniawerft,
V	—	A. G. Vulcan,
S	—	Schichau,
B	—	Blohm & Voss,
H	—	Howaldtswerke,
Ww		Wilhelmshaven Dockyard

In 1912 a new number sequence was commenced starting with the V.1 class, and to avoid duplication, at varying times before and during the war survivors of earlier classes dropped the original prefix letter and substituted 'T'. The torpedo boats of the war construction programmes, the last true torpedo boats built, received the letter 'A'.

By 1914 the earlier classes were obsolete and were used for training, minesweeping, tender and other subsidiary duties, and as new construction was commissioned the older ships were successively relegated to these and similar duties.

After 1916, with the great impetus placed on the submarine contruction programme, the building of destroyers was slowed down.

TORPEDO BOATS

T7 class ex-S7-41

Displacement: 85 tons.
Dimensions: $123\frac{3}{4} \times 16 \times 7\frac{1}{2}$ ft.
Machinery: 1-shaft Reciprocating (VTE) engine, I.H.P. 800/900 = $19/20\frac{1}{2}$ knots. Coal fired.
Armament: 1—4 pdr. gun; 3—13·7 (3 × 1) T.T.
Complement: 16.

S 7	6. 5.85	14.1.05 stricken, scrapped.
S 8	13. 5.85	1910 stricken, used as target ship, scrapped.
S 9	30. 5.85	14.1.05 stricken, scrapped.
S10	8. 6.85	14.1.05 stricken, scrapped.
T11 ex-S11	18. 6.85	3.4.20 stricken, 1920 scrapped Lubeck.
S12	27. 6.85	11.3.08 sunk in collision, off Elbe, S.S. EDOUARD GROSSMANN.
T13 ex-S13	7. 7.85	3.4.20 stricken, 1920 scrapped Lubeck.
T14 ex-S14	14. 7.85	3.4.20 stricken, 1920 scrapped Kiel.
T15 ex-S15	29. 7.85	3.4.20 stricken, 1921 scrapped Hamburg.
T16 ex-S16	1. 8.85	3.4.20 stricken, 1921 scrapped Lubeck.
S17	15. 8.85	18.1.06 stricken, 1910 scrapped.
S18	24. 8.85	14.1.05 stricken, target ship until 1918, scrapped.
S19	4. 9.85	14.1.05 stricken, 1910 scrapped.
T20 ex-S20	8. 9.85	3.4.20 stricken, 1920 scrapped Lubeck.
T21 ex-S21	19. 9.85	16.8.11 sunk in collision with T38, 25.8.11 raised, scrapped Kiel.
T22 ex-S22	1.10.85	3.4.20 stricken, 1920 scrapped Wilhelmshaven.
S23	10.10.85	14.1.05 stricken, 1905 scrapped Hamburg.
T24 ex-S24	30. 7.86	3.4.20 stricken, 1920 scrapped Kiel.
T25 ex-S25	4. 8.86	6.11.14 sunk in collision, North Sea, with T72.
S26	21. 8.86	22.9.97 foundered in storm off Elbe.
T27 ex-S27	24. 9.86	3.4.20 stricken, 1920 scrapped Kiel.
T28 ex-S28	6.10.86	3.4.20 stricken, 1921 scrapped Hamburg.
T29 ex-S29	19.10.86	3.4.20 stricken, 1921 scrapped Wilhelmshaven.

T30 ex-S30	22.11.86	3.4.20 stricken, 1921 scrapped Hamburg.
T31 ex-S31	4.12.86	3.4.20 stricken, 1920 scrapped Hamburg.
S32	12.11.86	17.8.10 sunk in collision, Baltic, with S76.
T33 ex-S33	3. 5.87	3.4.20 stricken, 1920 scrapped Hamburg.
T34 ex-S34	7. 5.87	3.4.20 stricken, 1920 scrapped Hamburg.
T35 ex-S35	25. 5.87	3.4.20 stricken, 1920 scrapped Hamburg.
T36 ex-S36	25. 6.87	3.4.20 stricken, 1920 scrapped Wilhelmshaven.
T37 ex-37S	9. 7.87	3.4.20 stricken, 1920 scrapped, Hamburg.
T38 ex-S38	27. 7.87	3.4.20 stricken, 1920 scrapped Hamburg.
T39 ex-S39	16. 8.87	3.4.20 stricken, 1920 scrapped Hamburg.
T40 ex-S40	27. 8.87	3.4.20 stricken, 1920 scrapped Hamburg.
S41	16. 9.87	28.8.95 foundered off Skagen.

Notes: Completed 1885/87. Builders: Schichau, Elbing. Relettered in T series 11.11.10. S32-41 displacement 104 tons, length 128 ft., I.H.P., 1,100 speed 20 knots—other details similar. By 1914 of practically no fighting value and reduced to harbour defence, minesweeping and tender duties, with reduced armament. Originally built with locomotive boilers, but many later rebuilt.

T42 ex-S42

Displacement: 123 tons.
Dimensions: 145 × 16 × 8¼ ft.
Machinery: 1-shaft Reciprocating (VTE) engine, I.H.P., 1,420 = 22 knots. Coal fired.
Armament: 1—4 pdr. gun, 3—13·7 in. (3 × 1) T.T.
Complement: 22.

T42 ex-S42	29. 5.89	24.6.02 sunk in collision off Elbe, S.S. FIRSBY, raised, repaired and recommissioned. 26.10.20 stricken, 1920 scrapped Wilhelmshaven.

Notes: Completed 1889. Builder: Schichau, Elbing. Relettered in T series 11.11.10.

T43 class ex-S43-65

Displacement: 127 tons.
Machinery: 1-shaft Reciprocating (VTE) engine, I.H.P., 1,571 = 21½ knots.
All other details as T42.

T43 ex-S43	17. 6.89	7.10.15 mined and sunk, North Sea.
T44 ex-S44	30.10.89	26.10.20 stricken, scrapped Hamburg.
T45 ex-S45	12. 7.89	10.5.22 stricken, hulked Kiel.
T46 ex-S46	3. 8.89	16.8.15 mined and sunk, Baltic.
T47 ex-S47	2. 9.89	29.5.15 mined and sunk, Baltic.
S48	20. 9.98	11.4.96 sunk in collision, Jade, with S46.
T49 ex-S49	30.1.90	26.10.20 stricken, scrapped Hamburg.
T50 ex-S50	4.11.89	28.9.14 foundered in Baltic.
T51 ex-S51	28.11.89	29.5.15 mined and sunk, Baltic.
T52 ex-S52	20.12.89	8.8.15 mined and sunk, Baltic.
T53 ex-S53	18. 1.90	26.10.20 stricken, scrapped Wilhelmshaven.
T54 ex-S54	30. 1.90	6.10.17 mined and sunk, Baltic.
T55 ex-S55	19. 2.90	26.10.20 stricken, scrapped Kiel.
T56 ex-S56	2. 4.90	16.10.17 stranded in Baltic.
T57 ex-S57	9. 6.90	5.4.15 mined and sunk, Baltic.
T58 ex-S58	3.12.91	8.8.15 mined and sunk, Baltic.
T59 ex-S59	9.12.91	25.6.18 sunk in collision, Baltic, raised, repaired. 26.10.20 stricken, scrapped Kiel.
T60 ex-S60	26. 3.92	26.10.20 stricken, scrapped Hamburg.
T61 ex-S61	6. 4.92	26.10.20 stricken, scrapped Kiel.
T62 ex-S62	27. 5.92	26.10.20 stricken, scrapped Kiel.
T63 ex-63	28. 5.92	26.10.20 stricken, scrapped Hamburg.

T64 ex-S64	28. 6.92	23.10.16 mined and sunk, Baltic.
T65 ex-S65	13.10.92	26.10.17 mined and sunk, Baltic.

Notes: Completed 1889/92. Builders: Schichau, Elbing. Relettered in T series S42-57 11.11.10; S58-65 4.9.14. S58-65 displacement 132 tons, I.H.P., 1,232, 20 knots. By 1915 majority relegated to minesweeping and tender duties.

T66 class ex-S66-76

Displacement: 140 tons.
Dimensions: $157\frac{1}{4} \times 17\frac{3}{4} \times 8\frac{1}{4}$ ft.
Machinery: 1-shaft Reciprocating (VTE) engine I.H.P., 1,600 = 21/22 knots. Coal fired.
All other details as T42.

T66 ex-S66	27. 4.93	18.10.17 mined and sunk, Gulf of Riga.
T67 ex-S67	14. 2 93	13.8.18 mined and sunk, North Sea.
T68 ex-S68	9. 3.93	7.6.18 mined and sunk, North Sea.
T69 ex-S69	20. 4.93	26.10.20 stricken, scrapped Wilhelmshaven.
T70 ex-S70	6. 6.93	26.1.21 ,, ,, ,,
T71 ex-S71	2. 8.93	23.3.21 ,, ,, ,,
T72 ex-S72	20. 6.93	26.1.21 ,, ,, ,,
T73 ex-S73	23. 6.93	26.1.21 ,, ,, ,,
T74 ex-S74	7.11.94	26.1.21 ,, ,, ,,

Notes: Completed 1893/95. Builders: Schichau, Elbing. Relettered in T series 4.9.14. T74 displacement 157 tons, length 163 ft., I.H.P., 2,500 = $23\frac{1}{2}$ knots. In 1914 relegated to minesweeping.

T75 class ex-S75-81

Displacement: 152 tons.
Dimensions: $160\frac{3}{4} \times 17\frac{1}{2} \times 8\frac{1}{4}$ ft.
Machinery: 1-shaft Reciprocating (VTE) engine, I.H.P. 1,744 = $22\frac{1}{2}$ knots.
All other details as T42.

T75 ex-S75	22.1.95	26.1.21 stricken, scrapped Wilhelmshaven.

T76 ex-S76	13. 3.95	17.8.10 sunk in collision, Baltic with S32, raised, repaired, recommissioned. 26.1.21 stricken, scrapped Wilhelmshaven.
T77 ex-S77	6.5.95	26.1.21 stricken, scrapped Wilhelmshaven.
T78 ex-S78	9.4.95	16.5.17 mined and sunk, North Sea.
T79 ex-S79	6.7.95	22.3.21 stricken, scrapped Kiel.
T80 ex-S80	14.6.95	26.1.21 stricken, scrapped Wilhelmshaven.
T81 ex-S81	30.9.95	26.1.21 stricken, scrapped Wilhelmshaven.

Notes: Completed 1895/96. Builders: Schichau, Elbing. Relettered in T series 4.9.14. 1914 relegated to minesweeping and tender duties.

T82 class ex-S82-87

Displacement: 147 tons.
Dimensions: 158 × 16½ × 8 ft.
Machinery: 1-shaft Reciprocating (VTE) engine, I.H.P. 2,150 = 25¼ knots.
Coal fired.
Armament: 1—4 pdr. gun: 3—18 in. (3 × 1) T.T.
Complement: 29.

T82 ex-S82	15.4.97	26.1.21 stricken, scrapped Hamburg.
T83 ex-S83	26. 6.97	26.1.21 stricken, scrapped Hamburg.
T84 ex-S84	29. 7.97	26.1.21 stricken, scrapped Wilhelmshaven.
T85 ex-S85	9. 9.97	1.9.98 foundered, raised, repaired, recommissioned, 22.3.21 stricken, scrapped Kiel.
T86 ex-S86	8.11.97	22.3.21 stricken, scrapped Kiel.
T87 ex-S87	10.12.97	26.1.21 stricken, scrapped Wilhelmshaven.

Notes: Completed 1897/98. Builders: Schichau, Elbing. Relettered in T series 4.9.14. Used for training purposes during war.

T88 class ex-G88-89

Displacement: 153 tons.
Dimensions: 160 × 16 × 8¼ ft.
Machinery: 1-shaft Reciprocating (VTE) engine, I.H.P. 2,468 = 26 knots.
Coal fired.
Armament: 1—4 pdr. gun: 3—18 in (3 × 1) T.T.
Complement: 29.

T88 ex-G88	10.7.97	22.3.21 stricken, scrapped Kiel
T89 ex-G89	19.2.98	,, ,,

Notes: Completed 1898. Builders: Germaniawerft, Kiel. Relettered in T series 4.9.14. Used for training purposes during war.

D1 class D1-6

Displacement: 250/300 tons.
Dimensions: 184/195½ × 21½/24½ × 10½ ft.
Machinery: 1-shaft Reciprocating (VTE) engine, I.H.P. 2,000/3,200 = 20/22½ knots. Coal fired.
Armament: 3—4 pdr. (3 × 1) guns: 3—13·5 in. (3 × 1) T.T.
Complement: 46.

D1	19.12.86	2.8.21 stricken, scrapped Wilhelmshaven.
D2	11. 9.86	7.12.20 ,, ,, ,,
D3	1.10.87	7.12.20 ,, ,, ,,
D4	9.11.87	7.12.20 ,, ,, Hamburg.
D5	20.10.88	7.12.20 ,, ,, ,,
D6	9. 2.89	7.12.20 ,, ,, ,,

Notes: Completed 1886/89. Builders: Schichau, Elbing. Minor differences between ships. D1 from 5.05 named CARMEN—admiralty yacht in Baltic. D2 from 3.02 named ALICE ROOSEVELT—admiralty yacht in North Sea. All relegated to fishery protection, tender, and training duties before 1914.

D7 class D7-8

Displacement: 320 tons.
Dimensions: 196 × 24½ × 11¼ ft.
Machinery: 1-shaft Reciprocating (VTE) engine, I.H.P. 3,600 = 22½ knots. Coal fired.
Armament: 3—4 pdr. (3 × 1) guns: 3—18 in. (3 × 1) T.T.
Complement: 52.

D7	6.5.91	7.12.20 stricken, scrapped Hamburg.
D8	8.6.91	7.12.20 ,, ,, ,,

Notes: Completed 1891. Builders: Schichau, Elbing. Coastal defence and training duties during war.

D9

Displacement: 350 tons.
Dimensions: 206½ × 25¼ × 11½ ft.
Machinery: 1-shaft Reciprocating (VTE) engine, I.H.P. 4,200 = 23½ knots. Coal fired.

All other details as D7 class.

D9	3.9.94	7.12.20 stricken, scrapped Hamburg.

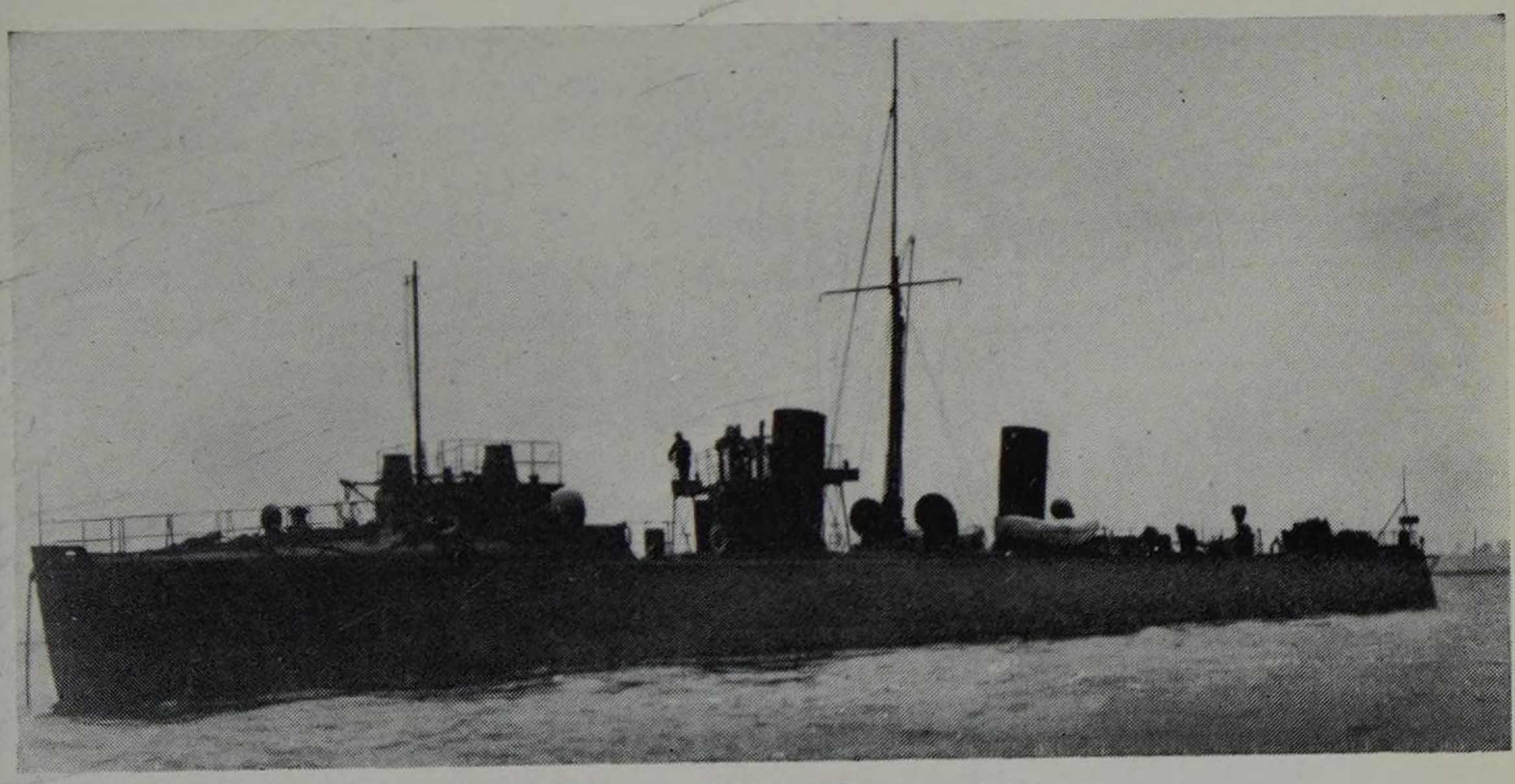
Notes: Completed 1894. Builder: Schichau, Elbing. Coastal defence and training duties during war.

D10

Displacement: 310 tons.
Dimensions: $205\frac{1}{2} \times 20\frac{1}{4} \times 7\frac{1}{2}$ ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 5,783 = $27\frac{1}{4}$ knots. Coal fired.
Armament: 5—4 pdr. (5 × 1) guns: 3—18 in (3 × 1) T.T.

D10	24.3.98	28.7.22 stricken, scrapped Wilhelmshaven.

Notes: Completed 1898. Builder: Thornycroft, London. Tender, coastal defence and training duties during war.



The old torpedo boat D10, built by Thornycroft's for the German Navy. [*Imperial War Museum*

V105 class V105-108

Displacement: 340 tons.
Dimensions: $205\frac{1}{2} \times 20\frac{1}{2} \times 7\frac{1}{2}$ ft.
Machinery: 2-shaft turbines, S.H.P. 5,670 = $29\frac{1}{2}$ knots. Coal/oil fired.
Armament: 2—3·4 in. (2 × 1) guns: 2—18 in. (2 × 1) T.T. V106 only 2—4 pdr. (2 × 1) guns.
Complement: 74.

V105	26. 8.14	1.9.39 bombed and sunk, by German aircraft.
V106	26. 8.14	1920 scrapped.
V107	12.12.14	8.5.15 mined and sunk, off Libau.
V108	12.12.14	20.7.25 sunk Danzig, boiler explosion.

Notes: Completed 1915. Builders: A. G. Vulcan, Stettin. All ordered by Netherlands as Z1-Z4, taken over by Germany 10.8.14. V105, V106 surrendered 20.8.20, originally allocated to Brazil. V105 to Poland, 4.11.20, as MAZUR. V108 5.8.20 to Poland as KASZUB. From 1915 tender and training duties.

A1 class A1-25

Displacement: 109 tons.
Dimensions: 136½ × 15 × 5 ft.
Machinery: 1-shaft Reciprocating (VTE) engine, I.H.P. 1,000/1,200 = 19/20 knots. Coal fired.
Armament: 1—4 prd. gun: 2—18 in. (2 × 1) T.T.; 4 mines: fitted for minesweeping.
Complement: 28.

A 1	16.1.15	10.5.22 stricken, 1922 scrapped Kiel.
A 2	17.3.15	1.5.15 sunk by gunfire, North Sea, R.N. destroyers.
A 3	24.6.15	7.11.15 lost without trace, on passage Kiel-Danzig.
A 4	26.6.15	1927 scrapped.
A 5	5.5.15	1927 scrapped.
A 6	3.4.15	1.5.15 sunk by gunfire, North Sea, R.N. destroyers.
A 7	2.2.15	21.3.18 sunk by gunfire, off Belgian coast, R.N. destroyers.
A 8	25.4.15	1927 scrapped.
A 9	4.8.15	1927 scrapped.
A10	10.8.15	7.2.18 mined and sunk off Belgian coast.
A11	4.6.15	1927 scrapped.
A12	28.4.15	1927 scrapped.
A13	15.5.15	16.8.17 bombed and sunk, Ostend, raised and scrapped Bruges.
A14	22.7.15	1927 scrapped.
A15	10.7.15	23.8.15 sunk by gunfire off Belgian coast, R.N. destroyers.
A16	16.6.15	1927 scrapped.
A17	8.6.15	6.1.21 stricken, 1922 scrapped Kiel.
A18	2.7.15	21.1.22 stricken, scrapped Kiel.
A19	9.9.15	21.3.18 sunk by gunfire off Belgian coast, R.N. destroyers.
A20	27.8.15	1948 scrapped Wilhelmshaven.
A21	1.6.15	6.1.21 stricken, 1922 scrapped Kiel.
A22	22.5.15	15.5.22 stricken, Harbour Service, Kiel.
A23	5.5.15	15.5.22 stricken, Target Ship, 1924 scrapped.

A24	12.6.15	15.5.22 stricken, Harbour Service, Swinemunde.
A25	13.7.15	15.5.22 stricken, Target Ship, then Harbour Service, Kiel, 1924 scrapped.

Notes: Completed 1915. Builders A.G. Vulcan, Hamburg.
A4 11.11.18 scuttled Antwerp, salved, to Belgium as A3PC, 1926 A3—PRINZESSE MARIE JOSE.
A5 15.11.18 interned Hellevoitsluis, 6.19 to Belgium as A4PC, 1926 A4.
A8 15.11.18 to Belgium as A5PC, 1926 A5.
A9 15.11.18 to Belgium as A6PC, 1926 A6.
A11 15.11.18 to Belgium as A7PC, 1926 A7.
A12 15.11.18 to Belgium as A2PC, 1926 A2—PRINCE CHARLES.
A14 15.11.18 to Belgium as A1PC, 1926 A1—PRINCE LEOPOLD.
A16 15.11.18 to Belgium as A8PC, 1926 A8.
A17 13.3.20 sunk in Kiel during Kapp Putsch, raised.
A20 15.11.18 to Belgium as A9PC, 1927 A9, later WEST DIEP, 1940 taken over by Germany, 1943 converted to A.A. Target Control Ship REIHER, 1943, Rangefinding training ship WARENDORP, 1945 to U.S.A.
A21 13.2.20 sunk in Kiel during Kapp Putsch, as A17.

A26 class A26-55

Displacement: 227 tons A26-49, 229 tons A50-55.
Dimensions: 164 × 17½ × 6½ ft.
Machinery: 1-shaft geared turbine, S.H.P. 3,250/3,500 = 25/25¾ knots. Oil fired.
Armament: 2—3·4 in. (2 × 1) guns: 1—18 in. T.T., fitted for minesweeping.
Complements 29.

A26	20. 5.16	23.3.21 stricken, scrapped Kiel.
A27	27. 5.16	20.8.20 surrendered, to U.K., 1922 scrapped Bo'ness.
A28	10. 6.16	20.8.20 surrendered, to U.K., 1922 scrapped Bo'ness.
A29	15. 6.16	20.8.20 surrendered, to U.K., 1923 scrapped Bo'ness.
A30	15. 7.16	1927 scrapped.
A31	1. 7.16	20.8.20 surrendered, to U.K., 1923 scrapped Bo'ness.
A32	15. 7.16	1940 taken over by Russia.
A33	20. 7.16	15.9.20 surrendered, to U.K., 1923 scrapped Bo'ness.
A34	20. 7.16	15.9.20 surrendered, to U.K., 1923 scrapped Bo'ness.
A35	19. 8.16	20.8.20 surrendered, to U.K., 1922 scrapped Bo'ness.
A36	14. 8.16	20.8.20 surrendered, to U.K., 1922 scrapped Bo'ness.
A37	12. 8.16	15.9.20 surrendered, to U.K., 1923 scrapped Bo'ness.
A38	17.10.16	15.9.20 surrendered, to U.K., 1923 scrapped Bo'ness.
A39	12. 9.16	20.8.20 surrendered, to U.K., 1922 scrapped Bo'ness.
A40	2. 9.16	1927 scrapped.
A41	8.12.16	20.8.20 surrendered, to U.K., 1922 scrapped Bo'ness.
A42	1.11.16	1927 scrapped.
A43	25.12.16	1943 scrapped.
A44	10. 3.17	15.9.20 surrendered, to U.K., 1922 scrapped Bo'ness.
A45	8.11.16	3.9.20 surrendered, to U.K., 1922 scrapped Bo'ness.

A46	24. 3.17	3.9.20 surrendered, to U.K., 1922 scrapped Bo'ness.
A47	23. 4.17	1927 scrapped.
A48	9. 6.17	3.9.20 surrendered, to U.K., 1922 scrapped Bo'ness.
A49	19. 5.17	15.9.20 surrendered, to U.K., 1923 scrapped Bo'ness.
A50	8. 7.17	17.11.17 mined and sunk. North Sea.
A51	16. 5.17	29.10.18 scuttled, Fiume, scrapped.
A52	18. 1.17	30.9.20 surrendered, to U.K., 1923 scrapped Bo'ness.
A53	3. 2.17	15.9.20 ,, ,, ,,
A54	22. 2.17	30.9.20 ,, ,, ,,
A55	10. 3.17	30.9.20 ,, ,, ,,

Notes: Completed 1916/17. Builders, Schichau, Elbing.
A30 15.11.18 to Belgium as A21PC.
A32 25.10.17 stranded in Baltic, salved, 1923 to Estonia as SULEV.
A40 15.11.18 to Belgium as A22PC.
A42 15.11.18 to Belgium as A23PC.
A43 15.11.18 to Belgium as A24PC, 1927 A24, later WIELINGEN, 1940 taken over by Germany.
A47 15.11.18 to Belgium as A25PC.

A56 class A56-67

Displacement: 330 tons.
Dimensions: 197 × 21 × 7 ft.
Machinery: 2-shaft turbines, S.H.P. 6,000 = 28 knots. Oil fired.
Armament: 2—3·4 in (2 × 1) guns: 1—18 in. T.T.
Complement: 50.

A56	28. 2.17	12.3.18 mined and sunk, North Sea.
A57	28. 2.17	1.3.18 mined and sunk, North Sea.
A58	31. 3.17	16.8.18 mined and sunk off Belgian coast.
A59	13. 4.17	1927 scrapped.
A60	15. 5.17	23.6.17 mined and sunk off Belgian coast.
A61	15. 5.17	15.9.20 surrendered, to U.K., 1923 scrapped Bo'ness.
A62	8. 6.17	15.9.20 surrendered, to U.K., 1923 scrapped Bo'ness.
A63	16. 6.17	30.9.20 surrendered, to France, 1923 scrapped Bo'ness.
A64	30. 3.18	4.9.39 scuttled Danzig Bay.
A65	30. 3.18	3.9.20 surrendered, to Brazil, but sold U.K. for scrapping. 1922 scrapped Queensferry.
A66	23. 6.18	30.9.20 surrendered, to France, 1923 scrapped Bo'ness.
A67	23. 6.18	3.11.19 stricken, 1921 scrapped Hamburg before completion.

Notes: Completed 1917/18. Builders A. G. Vulcan, Stettin. A59 30.9.20 surrendered, to Poland as SLAZAK. A64 30.9.20 surrendered, to Poland as KRAKOWIAK.

A68 class A68-79

Displacenemt: 330 tons.
Dimensions: 197 × 21 × 7 ft.
Machinery: 2-shaft geared turbines, S.H.P. 5,800/6,000 = 26½/28 knots. Oil fired.
Armament: 2—3·4 in. (2 × 1) guns: 1—18 in. T.T.
Complement: 50.

A68	11. 4.17	4.9.39 scuttled, off Danzig.
A69	28. 4.17	3.9.20 surrendered, allocated to Poland, 1922 scrapped Queensferry.
A70	19. 5.17	30.9.20 surrendered, allocated to Japan, 1922 scrapped Bo'ness.
A71	9. 6.17	4.5.18 mined and sunk, North Sea.
A72	30. 6.17	14.5.18 mined and sunk, North Sea.
A73	7. 7.17	20.1.18 mined and sunk, North Sea.
A74	4. 8.17	3.9.20 surrendered, scrapped 1922 Queensferry.
A75	11. 8.17	30.9.20 surrendered, scrapped 1923 Bo'ness.
A76	1. 9.17	30.9.20 surrendered, allocated to France, 1923 scrapped Bo'ness.
A77	22. 9.17	20.1.18 mined and sunk, North Sea.
A78	13.10.17	3.9.20 surrendered, 1922 scrapped Bo'ness.
A79	8.11.17	10.7.18 mined and sunk, North Sea.

Notes: Completed 1917. Builders: Schichau, Elbing. A68 3.9.20 surrendered, to Poland as RUJAWIAK. A74, A78 allocated to Brazil, but sold U.K. for scrapping.

A80 Class A80-82

Displacement: 330 tons.
Dimensions: 200 × 21 × 7¼ ft.
Machinery: 2-shaft turbines, S.H.P. 5,700 = 26/26½ knots. Oil fired.
Armament: 2—3·4 in. (2 × 1) guns: 1—18 in. T.T., fitted for minesweeping.
Complement: 50.

A80	24.10.17	1938 scrapped.
A81	27.11.17	30.9.20 surrendered, to U.K., scrapped Sunderland.
A82	27. 3.18	29.10.18 scuttled Fiume, scrapped.

Notes: Completed 1917/18. Builders: A. G. Vulcan, Stettin. A80 3—3·4 in. (3 × 1) guns: no T.T., 30.9.20 surrendered, to Poland as GORAL, 1922 PODHALANIN.

A83 class A83-85

All details as A80 Class.

A83	28. 5.18	3.11.19 stricken, scrapped before completion.
A84	19. 4.18	,, ,, ,,
A85	6. 6.18	,, ,, ,,

Notes: Builders: Howaldtswerke, Kiel.

A86 class A86-91

All details as A80 Class.

A86	5.2.18	30.9.20 surrendered, to U.K., 1923 scrapped Bo'ness.
A87	21.2.18	15.9.20 ,, 1922 ,,
A88	2.3.18	30.9.20 ,, 1923 ,,
A89	22.3.18	30.9.20 ,, 1923 ,,
A90	6.4.18	30.9.20 ,, 1923 ,,
A91	27.4.18	30.9.20 ,, 1922 ,,

Notes: Completed 1918. Builders: A. G. Vulcan, Stettin.

A92 class A92-95

Displacement: 335 tons.
Dimensions: $200\frac{3}{4} \times 21 \times 7$ ft.
Machinery: 2-shaft geared turbines, S.H.P. 6,000 = $26\frac{3}{4}$ knots. Oil fired.
Armament: 2—3·4 in. (2 × 1) guns: 1—18 in. T.T., fitted for minesweeping.
Complement: 50.

A92	16.3.18	15.9.20 surrendered, to U.K., 1923 scrapped Bo'ness.
A93	9.4.18	30.9.20 ,, 1922 ,,
A94	27.4.18	30.9.20 ,, 1923 ,,
A95	20.5.18	30.9.20 ,, 1923 ,,

Notes: Completed 1918. Builders: Schichau, Elbing.

A96 class A96-113

Displacement: 330 tons.
Dimensions: $200\frac{1}{2} \times 21 \times 7$ ft.
Machinery: 2-shaft turbines, S.H.P. 5,700 = 26 knots. Oil fired.
Armament: 2—3·4 in. (2 × 1) guns: 1—18 in. T.T.

A96 to A113	— —	3.11.19 all stricken, and broken up on stocks.

Notes: Builders: A. G. Vulcan, Stettin.

The torpedo boat A92, one of the last four torpedo boats built. [*National Maritime Museum*

DESTROYERS

Taku

Displacement: 305 tons.
Dimensions: 193½ × 20 × 6½ ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 6,000 = 30 knots. Coal fired.
Armament: 2—4 pdr. (2 × 1) guns: 2—18 in (2 × 1) T.T.
Complement: 49.

TAKU	1898	Schichau, Elbing.	28.9.14 scuttled, Kiaochow, China.

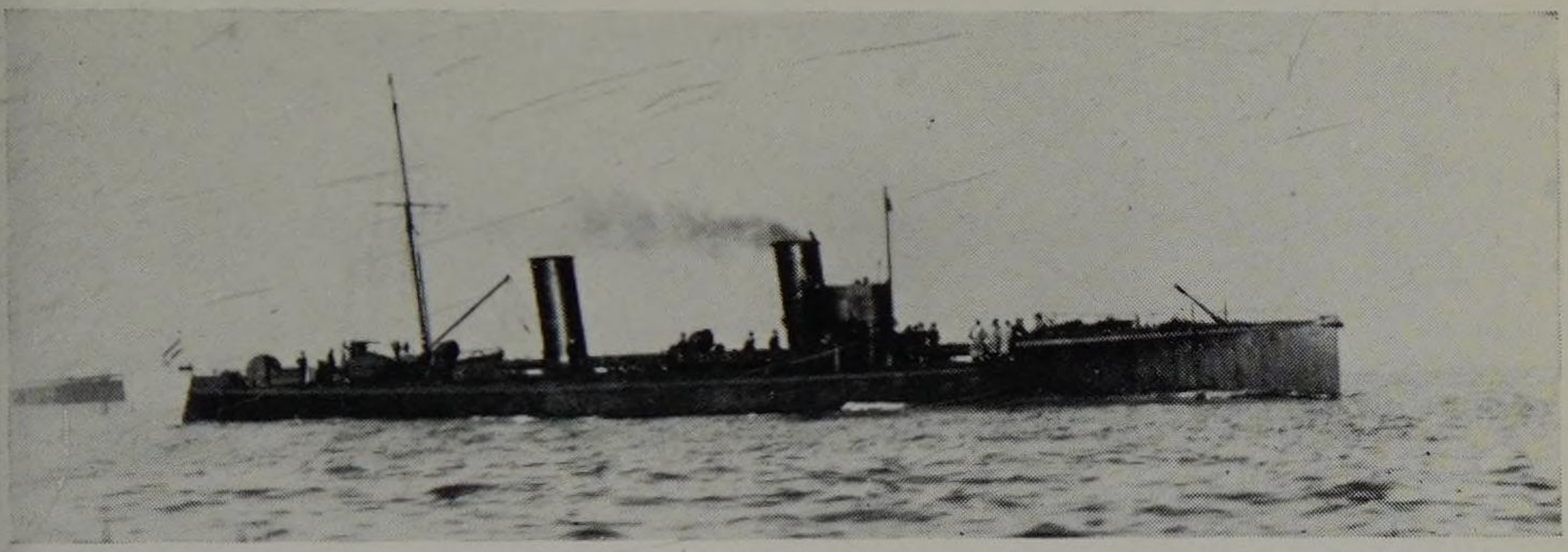
Notes: 17.6.00 Captured from China at Taku Forts during Boxer Rebellion, ex-HAI-YING. Used as tender to Far East Cruiser squadron.

T90 class T90-T101 ex-S90-S101

Displacement: 310 tons.
Dimensions: 206¾ × 23 × 8½ ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 5,900 = 26½/27 knots. Coal fired.
Armament: 3—4 pdr. (3 × 1) guns: 3—18 in. (3 × 1) T.T.
Complement: 57.

S90	26. 7.99	17.10.14 wrecked on China coast.
T91 ex-S91	25. 9.99	22.3.21 stricken, scrapped Dusseldorf.
T92 ex-S92	15. 5.00	,, ,, ,,
T93 ex-S93	24. 3.00	,, ,, ,,
T94 ex-S94	23. 4.00	26.10.20 stricken, 1921 scrapped Wilhelmshaven.
T95 ex-S95	20. 2.00	22.3.21 stricken, scrapped Kiel.
T96 ex-S96	31. 1.00	22.3.21 stricken, scrapped Dusseldorf.
T97 ex-SLEIPNER, ex-S97	16.12.99	,, ,, ,,
T98 ex-S98	28. 7.00	,, ,, ,,
T99 ex-S99	4. 9.00	,, ,, ,,
T100 ex-S100	13.11.00	15.10.15 sunk in collision, ferry PREUSSEN, Baltic.
T101 ex-S101	22.12.00	22.3.21 stricken, scrapped Kiel.

Notes: Completed 1899/01. Builder: Schichau, Danzig. Relettered in T series 4.9.14. S97 (T97) pre-war painted white and named SLEIPNER, escort to Imperial Yacht HOHENZOLLERN. T92 later re-armed 2—3·4 in. (2 × 1) guns. 1915/17 whole class relegated to escort, training or other subsidiary duties.



A T90 class destroyer, relegated to escort duties during the war. [*Imperial War Museum*

T102 class T102-107 ex-S102-107

Displacement: 315 tons.
Dimensions: 207½ × 23 × 8½ ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 5,900 = 27½/28 knots. Coal fired.
Armament: 3—4 pdr. (3 × 1) guns: 3—18 in. (3 × 1) T.T.
Complement: 57.

T102 ex-S102	18. 4.01	22.3.21 stricken, scrapped Kiel
T103 ex-S103	15. 5.01	22.3.21 stricken, scrapped Dusseldorf.
T104 ex-S104	22. 6.01	,, ,, ,,
T105 ex-S105	7. 8.01	,, ,, ,,
T106 ex-S106	7. 9.01	,, ,, ,,
T107 ex-S107	17.10.01	22.3.21 stricken, scrapped Kiel.

Notes: Completed 1901/02. Builder: Schichau, Danzig. Relettered in T series 4.9.14. T102-104 later rearmed 1—3·4 in., 2—4 pdr. guns. From 1915 onwards relegated to escort, training or other subsidiary duties.

T108 class T108-113 ex-G108-113

Displacement: 330 tons.
Dimensions: 216 × 22 × 8 ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 6,000/6,600 = 28/29 knots. Coal fired.
Armament: 3—4 pdr. (3 × 1) guns: 3—18 in. (3 × 1) T.T.
Complement: 57.

T108 ex-G108	7. 9.01	22.3.21 stricken, scrapped Hamburg.
T109 ex-G109	9.11.01	22.3.21 stricken, scrapped Kiel.
T110 ex-G110	9. 9.02	22.3.21 stricken, scrapped Hamburg.
T111 ex-G111	2. 4.02	22.3.20 stricken, scrapped Kiel.
T112 ex-G112	19. 6.02	22.3.20 stricken, scrapped Kiel.
T113 ex-G113	9. 8.02	22.3.21 stricken, scrapped Wilhelmshaven.

Notes: Completed 1902/03. Builder: Germaniawerft, Kiel. Relettered in T series 4.9.14. T108, T110 rearmed 2—3·4 in. (2 × 1) guns. 1915/17 class relegated to escort, training or tender duties.

T114 class T114-119 ex-S114-119

All details as T102 Class, but speed 27/28 knots.

T114 ex-S114	9. 8.02	9.11.20 stricken, 1921 scrapped Kiel.
S115	10. 9.02	17.10.14 sunk by gunfire, Battle of Heligoland Bight.
S116	14.10.02	6.10.14 torpedoed and sunk, North Sea, R.N. submarine E9.
S117	4. 2.03	17.10.14 sunk by gunfire, Battle of Heligoland Bight.
S118	21. 3.03	,, ,, ,,
S119	8. 7.03	,, ,, ,,

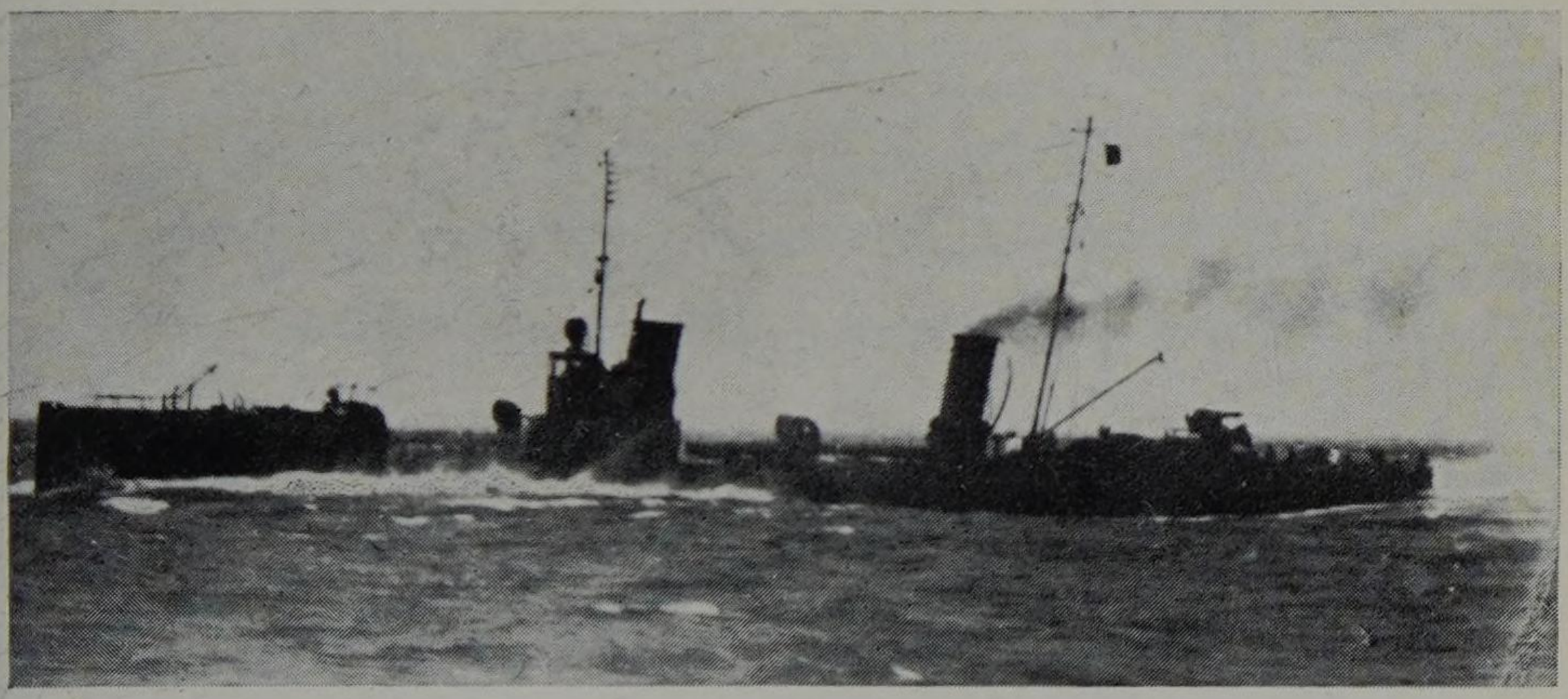
Notes: Completed 1902/03. Builder: Schichau, Elbing. S114 relettered in T series 27.9.16, relegated to escort and training duties.

T120 class T120-125 ex-S120-125

Displacement: 391 tons.
Dimensions: 212½ × 23 × 8½ ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 6,400 = 27½ knots. Coal fired.
Armament: 3—4 pdr. (3 × 1) guns: 3—18 in. (3 × 1) T.T.
Complement: 57.

T120 ex-S120	10.2.04	22.3.21 stricken, scrapped, Wilhelmshaven.
T121 ex-S121	3. 3.04	22.3.20 stricken, scrapped Kiel.
T122 ex-S122	23. 4.04	5.10.18 mined and sunk, North Sea.
S123	25. 6.04	1.5.16 mined and sunk, North Sea.
S124	3. 8.04	30.11.14 sunk in collision, Baltic, Danish steamer ANGLODANE.
T125 ex-S125	19. 5.04	26.10.20 stricken, 1921 scrapped Hamburg.

Notes: Completed 1904. Builder: Schichau, Danzig. Relettered in T series 27.9.16. T120-123 rearmed 1—3·4 in., 2—4 pdr. (2 × 1) guns. T125 3-shaft turbines, S.H.P. 6,600 = 28 knots. 1917 relegated to escort training and other subsidiary duties.



T121 ex-S121. Most early German destroyers followed this layout. [*P. A. Vicary*

T126 class T126-131 ex-S126-131

Displacement: 371 tons.
All other details as T120 class.

T126 ex-S126	26.11.04	22.3.20 stricken, scrapped Kiel.
T127 ex-S127	12. 1.05	22.3.21 stricken, scrapped Wilhelmshaven.
T128 ex-S128	25. 2.05	22.3.20 stricken, 1921 scrapped Kiel.

S129	4. 3.05	5.11.15 ran aground at mouth of Elbe.
T130 ex-S130	27. 4.05	22.3.21 stricken, 1921 scrapped Wilhelmshaven.
T131 ex-S131	25. 5.05	22.3.21 stricken, 1921 scrapped Wilhelmshaven.

Notes: Completed 1904/05. Builder: Schichau, Elbing. Relettered in T series 27.9.16. T126-128, 131, rearmed 1—3·4 in., 2—4 pdr. (2 × 1) guns. S126 11.11.05 lost in collision, Baltic, with German light cruiser UNDINE, raised, repaired, recommissioned 1908. Class relegated 1917 to escort, training and other subsidiary duties.

T132 class T132-136 ex-G132-136

Displacement: 412 tons.
Dimensions: 215½ × 23 × 8½ ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 6,700/7,000 = 27/28 knots. Coal fired.
Armament: 4—4 pdr. (4 × 1) guns: 3—18 in. (3 × 1) T.T.
Complement: 68.

T132 ex-G132	12.5.06	22.3.21 stricken, 1921 scrapped Wilhelmshaven.
T133 ex-G133	30.6.06	22.3.21 stricken, 1921 scrapped Wilhelmshaven.
T134 ex-G134	23.7.06	9.11.20 stricken, 1921 scrapped Hamburg.
T135 ex-G135	7.9.06	25.5.21 stricken, 1921 scrapped Wilhelmshaven.
T136 ex-G136	25.8.06	21.7.21 stricken, 1921 scrapped Wilhelmshaven.

Notes: Completed 1906/07. Builder: Germaniawerft, Kiel. Relettered in T series 27.9.16. T132-134 rearmed 1—3·4 in., 2—4 pdr. (2 × 1) guns. T135 built with this armament.

T137 ex-G137

Displacement: 580 tons.
Dimensions: 234½ × 25 × 9 ft.
Machinery: 3-shaft turbines, S.H.P. 10,800 = 30/34 knots. Coal fired.
Armament: 1—3·4 in., 3—4 pdr. (3 × 1) guns: 3—18 in. (3 × 1) T.T.
Complement: 80.

T137 ex-G137	24.1.07	22.3.21 stricken, 1921 scrapped Wilhelmshaven.

Notes: Completed 1907. Builder: Germaniawerft, Kiel. Relettered in T series 27.9.16. 1914/15 converted to oil fuel, Kiel D.Y.

T138 class T138-149 ex-S138-149

Displacement: 533 tons.
Dimensions: 232 × 25½ × 9 ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 11,000 = 30 knots. Coal fired.
Armanemt: 1—3·4 in., 3—4 pdr. (3 × 1) guns: 3—18 in. (3 × 1) T.T.
Complement: 80.

T138 ex-S138	22. 9.06	7.7.18 mined and sunk, North Sea.
T139 ex-S139	12.11.06	
T140 ex-S140	22.12.06	22.3.21 stricken, 1921 scrapped Wilhelmshaven.
T141 ex-S141	7. 2.07	1933 scrapped Wilhelmshaven.
T142 ex-S142	6. 3.07	2.12.20 stricken, 1921 scrapped Kiel.
T143 ex-S143	6. 4.07	10.5.27 stricken, 1930 scrapped Hamburg.
T144 ex-S144	27. 4.07	8.10.28 stricken, 1929 scrapped Essen.
T145 ex-S145	8. 6.07	22.3.21 stricken, scrapped Wilhelmshaven.
T146 ex-S146	27. 6.07	8.10.28 stricken, 1929 scrapped Essen.
T147 ex-S147	3. 8.07	2.12.20 stricken, 1921 scrapped Wilhelmshaven.
T148 ex-S148	11. 9.07	8.12.28 stricken, 1935 scrapped Wilhelmshaven.
T149 ex-S149	19.10.07	16.5.27 stricken, scrapped.

Notes: Completed 1907/8. Builder: Schichau, Danzig. Relettered in T series 24.9.17. T139 3.8.27 stricken, converted to target control ship PFEIL. T141 3.8.27 stricken, converted to target control ship BLITZ. T143 3.8.14 mined, Baltic, raised, repaired and recommissioned.

T150 class T150-161 ex-V150-161

Displacement: 558 tons.
Dimensions: 238 × 25½ × 10 ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 10,900 = 30 knots. Coal fired.
Armament: 2—3·4 in. (2 × 1) guns: 3—18 in. (3 × 1) T.T.
Complement: 83.

V150	1. 8.07	18.5.15 sunk in collision with V157 off Jade.
T151 ex-V151	14. 9.07	1945 to U.S.A., 1949 scrapped in Holland.
T152 ex-V152	11.10.07	31.3.31 stricken, 1935 scrapped.
T153 ex-V153	13.11.07	1945 to U.S.A., 1949 scrapped in Holland.
T154 ex-V154	19.12.07	8.12.28 stricken, 1935 scrapped.
T155 ex-V155	28. 1.08	22.4.45 bombed and sunk, Swinemunde.
T156 ex-V156	29. 2.08	3.5.45 scuttled, Kiel, broken up.
T157 ex-V157	29. 5.08	22.10.43 mined and sunk, Baltic.
T158 ex-V158	23. 6.08	1945 to Russia as PROSORLIWI.
T159 ex-V159	18. 7.08	20.8.20 surrendered, to U.K. 1922 scrapped Granton.
T160 ex-V160	12. 9.08	20.8.20 surrendered, to U.K., 1922 scrapped Granton.
T161 ex-V161	17. 9.08	3.9.20 surrendered, to U.K., 1922 scrapped Bo'ness.

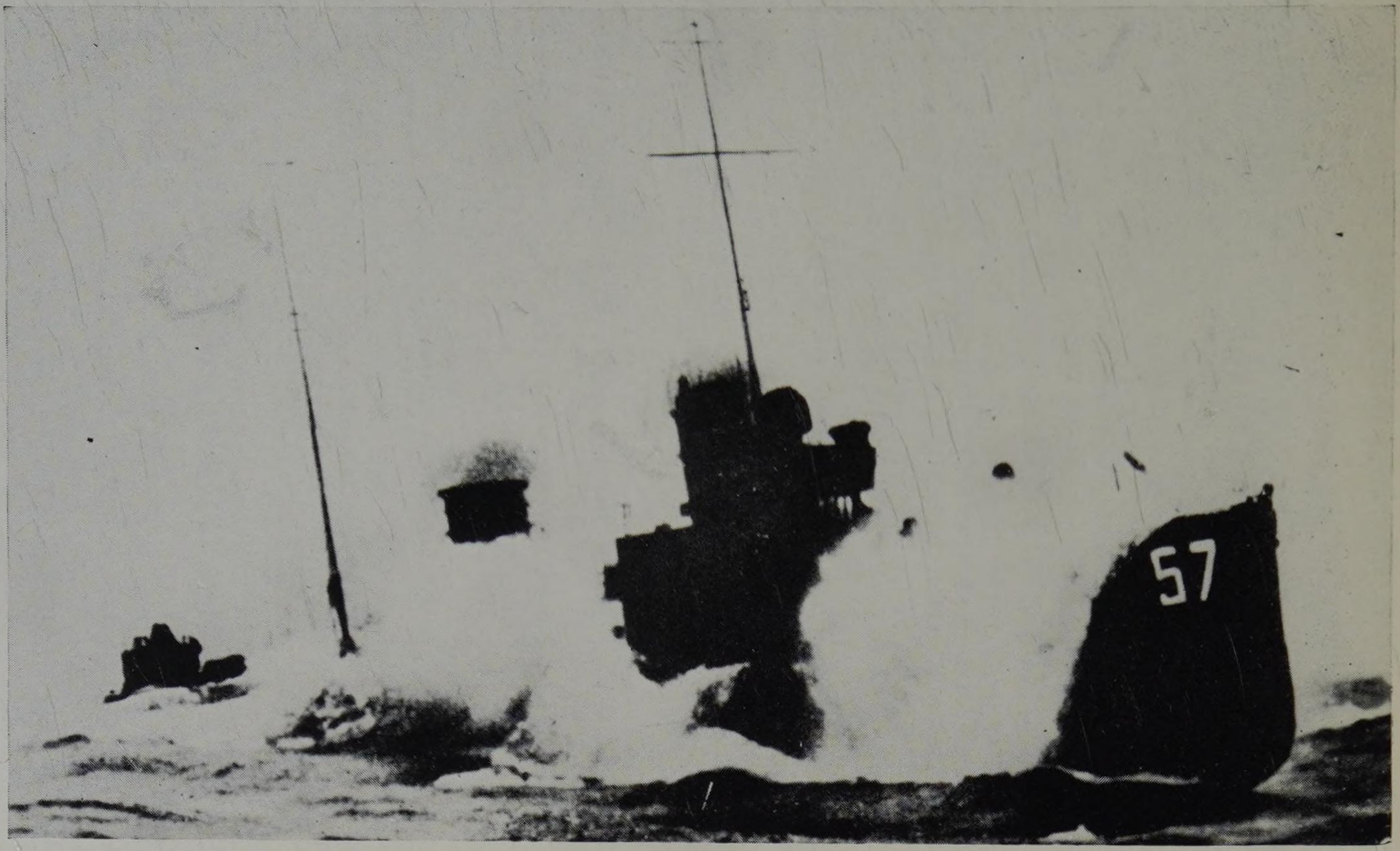
Notes: Completed 1908. Builders: A. G. Vulcan, Stettin. Relettered in T series 24.9.17. T161 only, displacement 596 tons, 2-shaft turbines, S.H.P. 14,800 = 33 knots. T153 1938 gunnery school tender EDOUARD JUNGMANN. T156, 157, 158 converted to submarine tenders 1934.

T162 class T162-164 ex-V162-164

Displacement: 639 tons.
Dimensions: $242\frac{1}{2} \times 26 \times 10$ ft.
Machinery: 2-shaft turbines, S.H.P. 15,000/16,000 = $33\frac{1}{2}$ knots. Coal fired.
Armament: 2—3·4 in. (2 × 1) guns: 3—18 in. (3 × 1) T.T.
Complement: 83.

V162	9.5.09	15.8.16 mined and sunk, Baltic.
T163 ex-V163	24.5.09	1921 scrapped, Dordrecht.
T164 ex-V164	27.5.09	5.8.20 surrendered, to U.K., 1922 scrapped Bo'ness.

Notes: Completed 1909. Builders: A. G. Vulcan Stettin,. Relettered in T series 24.9.17.



T157 ex V157 in heavy seas. For a while the first figure of the number was omitted on forecastle. [*P. A. Vicary*

S165 class S165-168

Displacement: 665 tons.
Dimensions: 243½ × 26½ × 10 ft.
Machinery: 2-shaft turbines, S.H.P. 17,500 = 32/33 knots. Coal/oil fired.
Armament: 2—3·4 in. (2 × 1) guns: 3—18 in. (3 × 1) T.T.
Complement: 83.

S165	20.3.09	1921 scrapped, Istanbul.
S166	24.4.09	10.7.17 bombed and sunk, Bosphorus.
S167	3.7.09	1921 scrapped, Istanbul.
S168	30.9.09	30.10.16 sunk, off Warna, Black Sea, ran on rocks and scuttled.

Notes: Completed 1910. Builders Schichau, Danzig. 1910 all sold to Turkey, renamed S165—MUAVENET-I-MILLIJE, S166—JADIGHAR-I-MILLET, S167—NUMUNE-I-HAMIJE, S168—GAIRET-I-WATANIJE.

T165 class T165-168 ex-S165-168

Displacement: 665 tons.
Dimensions: 243 × 26 × 10 ft.
Machinery: 2-shaft turbines, S.H.P. 17,500 = 32/33 knots. Coal/oil fired.
Armament: 2—3·4 in. (2 × 1) guns: 3—18 in. (3 × 1) T.T.
Complement: 83.

T165 ex-S165	26.11.10	15.9.20 surrendered, to U.K., 1922 scrapped Montrose
T166 ex-S166	27.12.10	5.8.20 surrendered, to U.K., 1922 scrapped Dordrecht.
T167 ex-S167	15. 2.11	22.3.21 stricken, 1922 scrapped Kiel.
T168 ex-S168	16. 3.11	11.1.27 stricken, scrapped Hamburg.

Notes: Completed 1911 as replacements for earlier vessels of same numbers sold to Turkey 1910. Relettered in T series 24.9.17.

T169 class T169-173 ex-G169-173

Displacement: 670 tons.
Dimensions: 243 × 26 × 10 ft.
Machinery: 3-shaft turbines, S.H.P. 15,000/16,000 = 32 knots. Coal/oil fired.
Armament: 2—3·4 in. (2 × 1) guns: 3—18 in. (3 × 1) T.T.
Complement: 83.

T169 ex-G169	29.12.08	5.8.20 surrendered, to U.K., 1922 scrapped Dordrecht.
T170 ex-G170	3. 3.09	22.3.21 stricken, 1921 scrapped Wilhelmshaven.
G171	28. 5.09	4.9.12 sunk in collision, North Sea, with battleship ZÄHRINGEN.
T172 ex-G172	10. 7.09	7.7.18 mined and sunk, North Sea.
T173 ex-G173	28. 7.09	3.9.20 surrendered, to U.K., 1922 scrapped Montrose.

Notes: Completed 1909/10. Builders: Germaniawerft, Kiel. Relettered in T series 24.9.17. T173 2-shaft turbines, 31½ knots, displacement 700 tons.

T174 class T174-175 ex-G174-175

Displacement: 700 tons.
Dimensions: 243 × 26 × 10 ft.
Machinery: 2-shaft turbines, S.H.P. 16,000 = 32 knots. Coal/oil fired.
Armament: 2—3·4 in. (2 × 1) guns: 4—20 in. (4 × 1) T.T.
Complement: 83.

T174 ex-G174	8.1.10	20.8.20 surrendered, to U.K., 1922 scrapped Granton.
T175 ex-G175.	24.2.10	23.9.26 stricken, scrapped Hamburg.

Notes: Completed 1910. Builders: Germaniawerft, Kiel. G175 1912/13 named SLEIPNER. Relettered in T series 22.2.18.

T176 class T176-179 ex-S176-179

Displacement: 656 tons.
Dimensions: 243½ × 26 × 10 ft.
Machinery: 2-shaft turbines, S.H.P. 17,000 = 32/33 knots. Coal/oil fired.
Armament: 2—3·4 in. (2 × 1) guns: 4—20 in. (4 × 1) T.T.
Complement: 83.

T176 ex-S176	12.4.10	15.9.20 surrendered, to U.K., 1922 scrapped Montrose
S177	21.5.10	23.12.15 mined and sunk, North Sea.
T178 ex-S178	14.7.10	5.8.20 surrendered, to U.K., 1922 scrapped Dordrecht.
T179 ex-S179	27.8.10	5.8.20 surrendered, to U.K., 1921 scrapped Dordrecht.

Notes: Completed 1910/11. Builders: Schichau, Elbing. Relettered in T series 22.2.18. S178 4.3.13 sunk in collision, German cruiser YORCK, raised, repaired, recommissioned.

T180 class T180-185 ex-V180-185

Displacement: 650 tons.
Dimensions: $242\frac{1}{2} \times 25\frac{3}{4} \times 10$ ft.
Machinery: 2-shaft turbines, S.H.P. 17,750 = 33 knots. Coal/oil fired.
Armament: 2—3·4 in. (2 × 1) guns: 4—20 in. (4 × 1) T.T.
Complement: 83.

T180 ex-V180	15.10.09	5.8.20 surrendered, to Brazil, 1921 scrapped Dordrecht
T181 ex-V181	5.11.09	20.8.20 surrendered, to Japan, 1922 scrapped Dordrecht.
T182 ex-V182	1.12.09	5.8.20 surrendered, to U.K., 1922 scrapped Dordrecht.
T183 ex-V183	23.12.09	,, ,, ,,
T184 ex-V184	26. 2.10	,, ,, ,,
T185 ex-V185	9. 4.10	1945 to Russia as WYSTREL.

Notes: Completed 1910. Builders: A. G. Vulcan, Stettin. Relettered in T series 22.2.18. T185 1920 rearmed 2—4·1 in. (2 × 1) guns: 3—18 in. T.T., Wilhelmshaven D.Y., 4.10.32 stricken, converted to target control vessel BLITZ.

T186 class T186-191 ex-V186-191

All details as T180 class but S.H.P. 18,000 = 35 knots.

T186 ex-V186	28.11.10	5.8.20 surrendered, to U.K., 1922 scrapped Dordrecht.
V187	11. 1.11	28.8.14 sunk by gunfire, R.N. forces, North Sea.
V188	8. 2.11	26.7.15 torpedoed and sunk, North Sea, R.N. submarine E15.
T189 ex-V189	14. 3.11	28.4.20 surrendered, to U.K., 12.20 wrecked on South Coast.
T190 ex-190	12. 4.11	1945 to U.S.A., 1946 scuttled Skagerrak.
V191	2. 6.11	17.12.15 mined and sunk Baltic, with cruiser BREMEN.

Notes: Completed 1911. Builders A. G. Vulcan, Stettin. Relettered in T series 22.2.18. T190 1925/26 refitted Wilhelmshaven D.Y., converted to oil fuel, 1937 converted to tender CLAUS VON BEVERN.

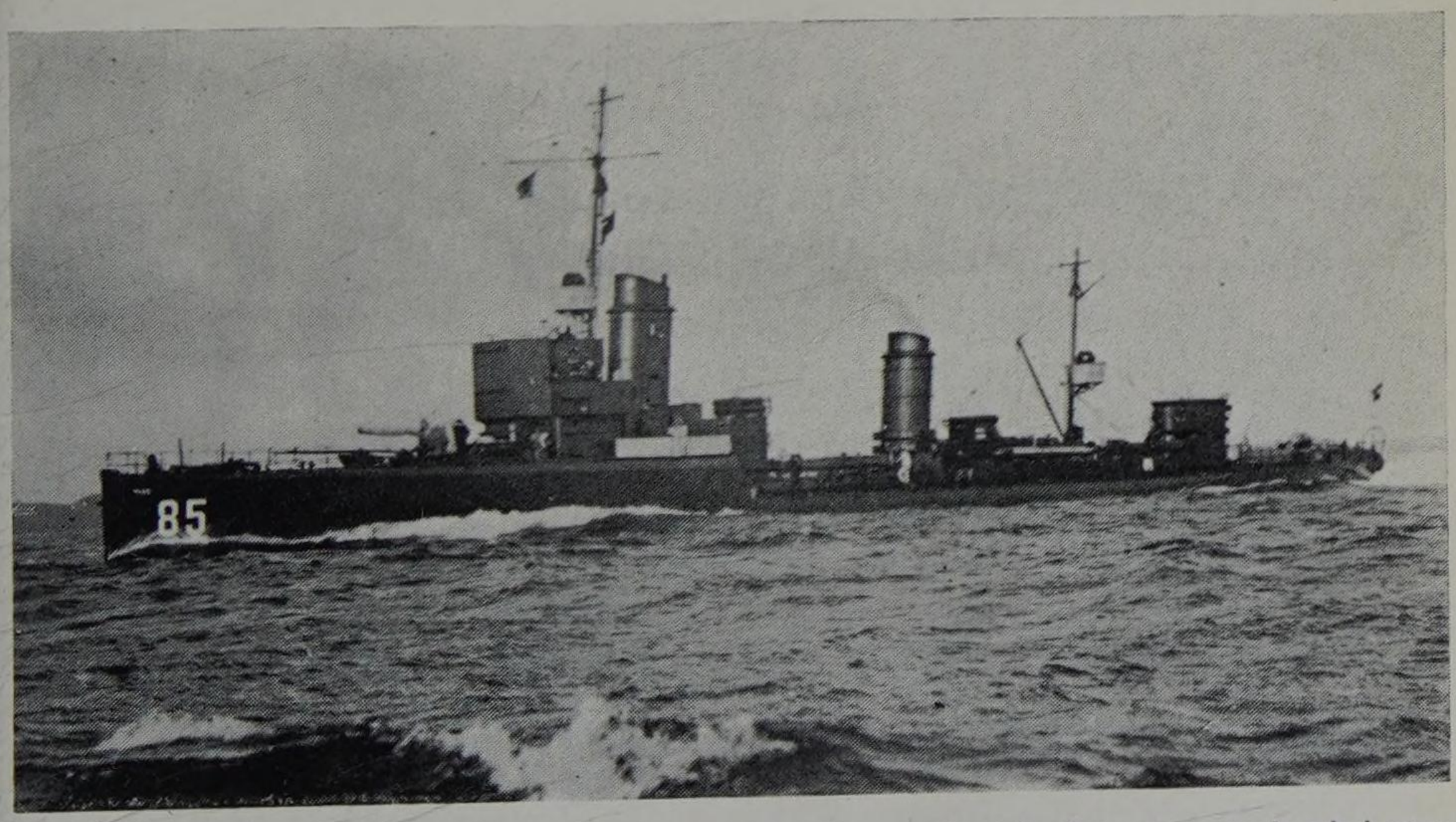
T192 class T192-197 ex-G192-197

Displacement: 660 tons.
Dimensions: 243 × 26 × 10 ft.

Machinery: 2-shaft turbines, S.H.P. 18,000/19,000 = 32/34 knots. Coal/oil fired.
Armament: 2—3·4 in. (2 × 1) guns: 4—20 in. (4 × 1) T.T.
Complement: 83.

T192 ex-G192	5.11.10	28.4.20 surrendered, to U.K., 1922 scrapped Chatham.
T193 ex-G193	10.12.10	28.4.20 surrendered, to U.K., 1922 scrapped Chatham.
G194	12. 1.11	26.3.16 sunk by ramming, North Sea, R.N. light cruiser CLEOPATRA.
T195 ex-G195	8. 4.11	28.4.20 surrendered, to U.K., 1922 scrapped Chatham.
T196 ex-G196	25. 4.11	1945 to Russia as PRONSITELNY, later scrapped.
T197 ex-G197	23. 6.11	28.4.20 surrendered, to U.K., 1921 scrapped Briton Ferry.

Notes: Completed 1911. Builders: Germaniawerft, Kiel. Relettered in T series 22.2.18.



T185 ex-V185 with re-modelled bridge and rearmed. She survived both wars, to be handed over to Russia in 1945. [*National Maritime Museum*

V1 class V1-V6

Displacement: 569 tons.
Dimensions: $235\frac{1}{2} \times 25 \times 11\frac{1}{2}$ ft.
Machinery: 2-shaft turbines, S.H.P. 17,000 = 32/33 knots. Coal/oil fired.
Armament: 2—3·4 in. (2 × 1) guns: 4—20 in. (4 × 1) T.T. 18 mines.
Complement: 73.

V1	11.9.11	27.3.29 stricken, scrapped Wilhelmshaven.
V2	14.10.11	18.11.29 stricken 1930, scrapped Wilhelmshaven.
V3	15.11.11	18.11.29 stricken, scrapped Wilhelmshaven.
V4	23.12.11	1.6.16 sunk, Jutland.
V5	25. 4.13	18.11.29 stricken, 1930 scrapped Wilhelmshaven.
V6	28. 2.13	27.3.29 stricken, scrapped Wilhelmshaven.

Notes: Completed 1912/13. Builders: A. G. Vulcan, Stettin. V5 and V6 replacements for two of same number sold to Greece while building—NEA GENEA and KERAVNOS. V1-3, 5, 6 rebuilt 1921/22 Wilhelmshaven D.Y., rearmed 2—4·1 in. (2 × 1) guns.

G7 class G7-12

Displacement: 573 tons.
Dimensions: $234\frac{1}{2} \times 24\frac{3}{4} \times 12\frac{1}{2}$ ft.
Machinery: 2-shaft turbines, S.H.P. 16,000 = 32/33 knots. Coal/oil fired.
Armament: 2—3·4 in. (2 × 1) guns: 4—20 in. (4 × 1) T.T., 18 mines.

G7	7.11.11	1945 to Russia as PORASCHAJUSCHTSCHI later scrapped.
G8	21.12.11	1945 to U.K., scrapped.
G9	31. 1.12	3.5.18 mined and sunk, North Sea.
G10	15. 3.12	5.5.45 scuttled, Travemunde.
G11	23. 4.12	3.5.45 bombed and sunk, Kiel.
G12	15. 7.12	8.9.15 sunk in collision, North Sea, German destroyer VI.

Notes: Completed 1912. Builders: Germaniawerft, Kiel.
G7 refitted Wilhelmshaven D.Y. 1920/21 rearmed 2—4·1 in. (2 × 1) guns. 1937 training ship, 17.4.39 relettered T107.
G8 as above but T108,
G10 as above but T110,
G11 as above but T111.

S13 class S13-24

Displacement: 568 tons.
Dimensions: $234\frac{1}{2} \times 24\frac{1}{2} \times 10$ ft.
Machinery: 2-shaft turbines, S.H.P. 15,000/16,000 = 32/34 knots. Coal/oil fired.

Armament: 2—3·4 in. (2 × 1) guns: 4—20 in. (4 × 1) T.T., 18 mines.
Complement: 73.

S13	7.12.11	6.11.14 sunk by accident, North Sea, torpedo explosion.
S14	2. 3.12	19.2.15 sunk, internal explosion, in Jade, raised 1915, scrapped Wilhelmshaven.
S15	23. 3.12	21.8.17 mined and sunk off Belgian coast, raised, 1917 scrapped Ghent.
S16	20. 4.12	20.1.18 mined and sunk, North Sea.
S17	22. 6.12	16.5.17 mined and sunk, North Sea.
S18	10. 8.12	31.3.31 stricken, 1935 scrapped Wilhelmshaven.
S19	17.10.12	31.3.31 stricken, 1935 scrapped Kiel.
S20	4.12.12	5.6.17 sunk by gunfire off Belgian coast.
S21	11. 1.13	21.4.15 sunk in collision, North Sea, German cruiser HAMBURG.
S22	15. 2.13	26.3.16 mined and sunk, North Sea.
S23	29. 3.13	1945 to Russia.
S24	28. 6.13	28.4.20 surrendered, to U.K., 12.20 wrecked, South Coast.

Notes: Completed 1912/13. Builders: Schichau, Danzig. S15, 18, 20, 24 refitted 1916/17 Wilhelmshaven D.Y. rearmed 2—4·1 in. (2 × 1) guns. S19 as above but 1923. S23 refitted 1921 Wilhelmshaven D.Y., 16.3.32 relettered T23, 17.4.39—T123—KOMET, wireless control ship for target ship HESSEN.

V25 class V25-30

Displacement: 812 tons.
Dimensions: 257½ × 27½ × 11 ft.
Machinery: 2-shaft turbines, S.H.P. 23,500 = 33/36 knots. Oil fired.
Armament: 3—3·4 in. (3 × 1) guns: 6—20 in. (2 × 2,2 × 1) T.T., 24 mines.
Complement: 83.

V25	29. 1.14	13.2.15 mined and sunk, North Sea.
V26	21. 2.14	14.6.20 surrendered, to U.K., 1922 scrapped Portishead.
V27	26. 3.14	31.5.16 sunk by gunfire, Jutland.
V28	9. 5.14	14.6.20 surrendered, to U.K., 1922 scrapped Portishead.
V29	18. 8.14	31.5.16 torpedoed and sunk, Jutland, R.N. destroyer PETARD.
V30	18. 9.14	20.11.18 mined and sunk, North Sea, en route to surrender.

Notes: Completed 1914. Builders: Germaniawerft, Kiel.

S31 class S31-36

Displacement: 802 tons.
Dimensions: 261 × 27½ × 11 ft.
Machinery: 2-shaft turbines, S.H.P. 23,500/25,000 = 33/36 knots. Oil fired.
Armament: 3—3·4 in. (3 × 1) guns: 6—20 in. (2 × 2, 2 × 1) T.T., 24 mines.

S31	20.12.13	10.8.15 mined and sunk, Baltic, off Riga.
S32	28. 2.14	21.6.19 scuttled, Scapa Flow, 19.6.25 raised, scrapped Granton.
S33	4. 4.14	3.10.18 torpedoed and sunk, North Sea, R.N. submarine L11.
S34	13. 6.14	3.10.18 mined and sunk, North Sea.
S35	30. 8.14	31.5.16 sunk by gunfire, Jutland.
S36	7.10.14	21.6.19 scuttled, Scapa Flow, 18.4.25 raised, scrapped Scapa.

Notes: Completed 1914/15. Builders: Schichau, Elbing. S32, 36, 22.11.18 interned Scapa Flow.

G37 class G37-40

Displacement: 822 tons.
Dimensions: 261 × 27½ × 11 ft.
Machinery: 2-shaft turbines, S.H.P. 24,000/25,000 = 34 knots. Oil fired.
Armament: 3—3·4 in. (3 × 1) guns: 6—20 in. (2 × 2 2 × 1) T.T., 24 mines.
Complement: 83.

G37	17.12.14	4.11.17 mined and sunk, North Sea.
G38	23.12.14	21.6.19 scuttled, Scapa Flow, 27.9.24 raised, scrapped Scapa.
G39	16. 1.15	21.6.19 scuttled, Scapa Flow, 3.7.25 raised, scrapped Scapa.
G40	27. 2.15	21.6.19 scuttled Scapa Flow, 19.7.29 raised, scrapped Inverkeithing.

Notes: Completed 1915. Builders: Germaniawerft, Kiel.
G38, 39, 40, 22.11.18 interned Scapa Flow.

G41 class G41-42

Displacement: 960 tons.
Dimensions: 272½ × 27½ × 11½ ft.
Machinery: 2-shaft turbines, S.H.P. 24,000/25,000 = 34 knots. Oil fired.
Armament: 3—3·4 in. (3 × 1) guns: 6—20 in. (2 × 2, 2 × 1) T.T., 24 mines.
Complement: 87.

G41	24.4.15	3.10.18 Blown up, Bruges, on evacuation.
G42	20.5.15	21.4.17 sunk by gunfire, Straits of Dover, R.N. destroyers BROKE and SWIFT.

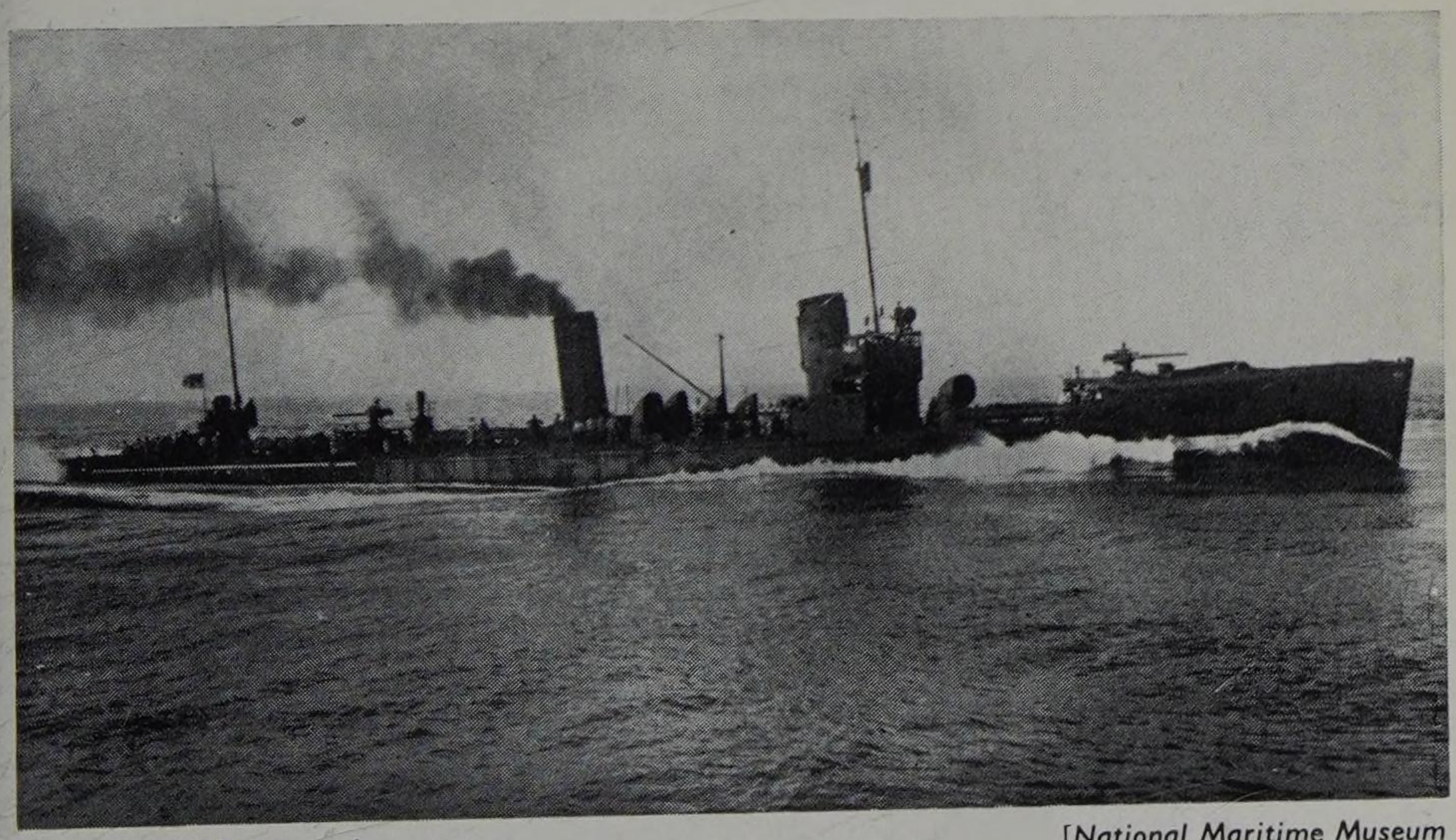
Notes: Completed 1915. Builders: Germaniawerft, Kiel.
G42 armed with 3—4·1 in. (3 × 1) guns.

V43 class V43-46

Displacement: 852 tons.
Dimensions: 261 × 27½ × 11 ft.
Machinery: 2-shaft geared turbines, S.H.P. 24,000/24,700 = 34/36 knots. Oil fired.
Armament: 3—3·4 in. (3 × 1) guns: 6—20 in. (2 × 2 2 × 1) T.T., 24 mines.
Complement: 87.

V43	27. 1.15	15.7.21 sunk as target, off Cape Henry, U.S.A.
V44	24. 2.15	1922 scrapped, Portsmouth.
V45	29. 3.15	21.6.19 scuttled, Scapa Flow, 9.24 raised, scrapped Liverpool.
V46	23.12.14	1924 scrapped Cherbourg.

Notes: Completed 1915. Builders: A. G. Vulcan, Stettin. V43 22.11.18 interned Scapa Flow, 21,6.19 scuttled in shallow water, 7.19 salved, 9.10.20 to U.S.A., sunk by gunfire U.S. battleship FLORIDA. V44 as above but to U.K. for scrapping, V46 as above, but to France.



Destroyer V43 at speed. [*National Maritime Museum*

V47 class V47-48

Displacement: 924 tons.
Dimensions: 272½ × 27½ × 11½ ft.
Machinery: 2-shaft geared turbines, S.H.P. 24,000/25,000 = 33½/34½ knots. Oil fired.
Armament: 3—3·4 in. (3 × 1) guns: 6—20 in. (2 × 2, 2 × 1) T.T., 24 mines.
Complement: 87.

V47	10.6.15	2.11.18 scuttled Terneuzen Canal, on evacuation of Belgium.
V48	6. 8.15	31.5.16 sunk by gunfire, Jutland.

Notes: Completed 1915. Builders: A. G. Vulcan, Stettin. 1916 rearmed 3—4·1 in (3 × 1) guns.

S49 class S49-52

Displacement: 802 tons.
Dimensions: 261 × 27½ × 11 ft.
Machinery: 2-shaft turbines, S.H.P. 24,000/25,000 = 34/36½ knots. Oil fired.
Armament: 3—3·4 in. (3 × 1) guns: 6—20 in. (2 × 2, 2 × 1) T.T., 24 mines.
Complement: 83.

S49	10.4.15	21.6.19 scuttled Scapa Flow, 12.24 raised, scrapped Granton.
S50	24.4.15	21.6.19 scuttled Scapa Flow, 10.24 raised, scrapped Stranraer.
S51	29.4.15	21.6.19 scuttled Scapa Flow, 7.19 raised, 1922 scrapped Rosyth.
S52	14.6.15	21.6.19 scuttled Scapa Flow, 13.10.24 raised, scrapped, Inverkeithing.

Notes: Completed 1915. Builders: Schichau, Elbing. All interned Scapa Flow 22.11.18.

S53 class S53-66

Displacement: 919 tons.
Dimensions: 272½ × 27½ × 11½ft.
Machinery: 2-shaft geared turbines, S.H.P. 24,000/25,000 = 35/36 knots. Oil fired.
Armament: S53-56 3—3·4 in. (3 × 1) guns, S57-66 3—4·1 in. (3 × 1) guns: 6—20 in. (2 × 2, 2 × 1) T.T., 24 mines.
Complement: 87.

S53	18. 9.15	21.6.19 scuttled, Scapa Flow, 13.8.24 raised, 1927 scrapped, Scapa.
S54	11.10.15	21.6.19 scuttled, Scapa Flow, 5.6.25 raised, scrapped.

S55	6.11.15	21.6.19 scuttled, Scapa Flow, 29.8.24 raised, scrapped. Granton.
S56	11.12.15	21.6.19 scuttled, Scapa Flow, 5.6.25 raised, scrapped 1928 Scapa.
S57	8. 1.16	10.11.16 mined and sunk, Gulf of Finland.
S58	5. 2.16	11.11.16 mined and sunk, Gulf of Finland.
S59	16. 2.16	11.11.16 mined and sunk, Gulf of Finland.
S60	3. 4.16	21.6.19 scuttled, Scapa Flow, but beached, to Japan, Scrapped U.K.
S61	8. 4.16	2.11.18 scuttled, Terneuzen Canal, on evacuation of Belgium
S62	13. 5.16	10.7.18 mined and sunk, North Sea.
S63	25. 5.16	1937 scrapped.
S64	21. 8.16	18.10.17 mined and sunk, Baltic.
S65	14.10.16	21.6.19 scuttled, Scapa Flow, 16.5.25 raised, scrapped.
S66	21.11.16	10.7.18 mined and sunk, North Sea.

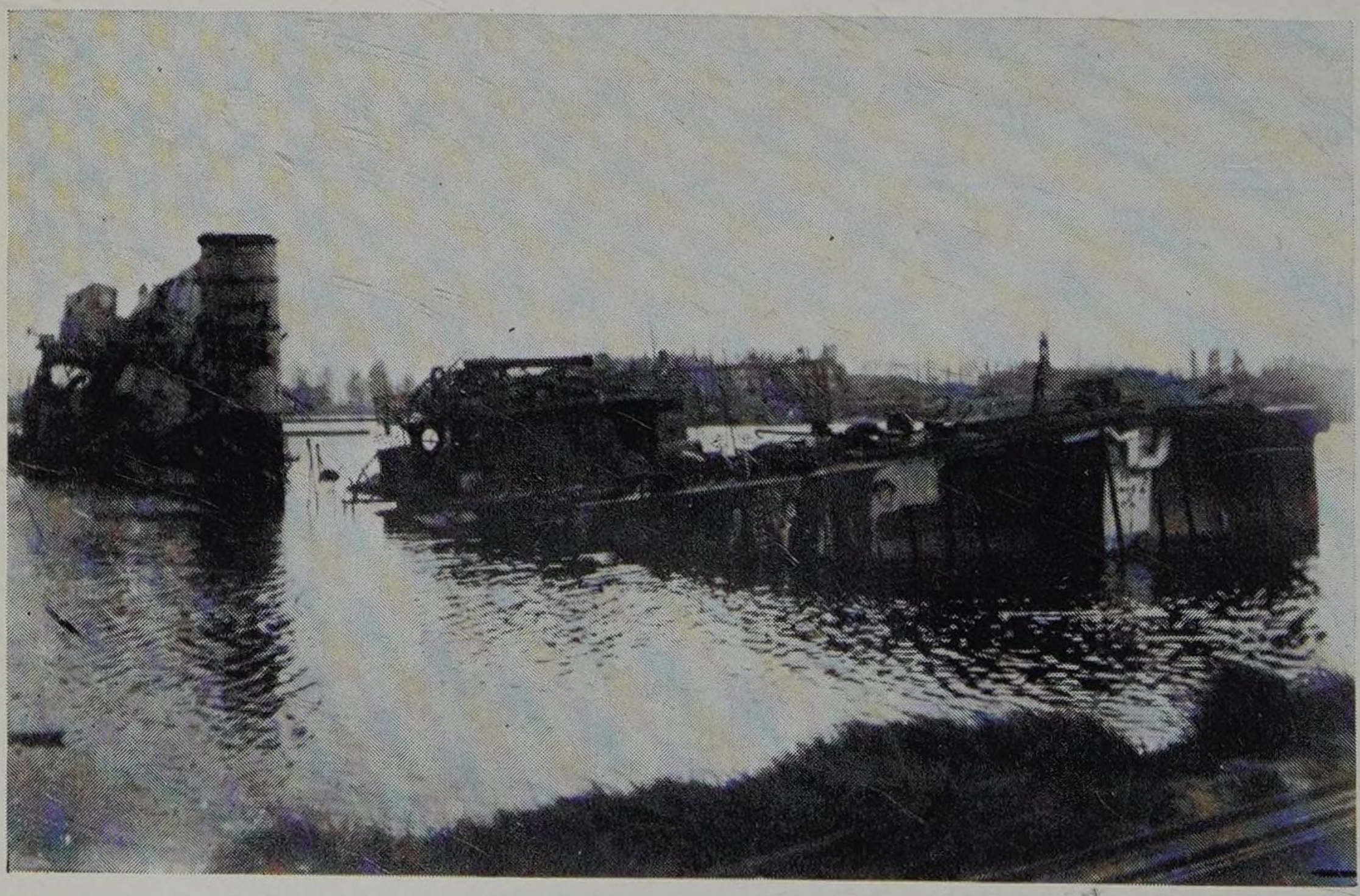
Notes: Completed 1916/17. Builders: Schichau, Elbing. S53-56 re-armed 1916 with 3—4·1 in. (3 × 1) guns. S53, 54, 55, 56, 60, 65 interned Scapa Flow 22.11.18. S63 5.11.19 stricken, 23.5.20 surrendered, to Italy as ARDIMENTOSO.

V67 class V67-84

Displacement: 924 tons.
Dimensions: 269 × 27½ × 11½ ft.
Machinery: 2-shaft geared turbines, S.H.P. 23,500/24,400 = 34/36½ knots
Oil fired.
Armament: 3—3·4 in. (3 × 1) guns: 6—20 in. (2 × 2, 2 × 1) T.T., 24 mines.
V82-84 3—4·1 in (3 × 1) guns.
Complement: 87.

V67	3. 8.15	2.11.18 scuttled, Terneuzen Canal, on evacuation of Belgium.
V68	24. 8.15	8.8.18 mined and sunk off Belgian coast.
V69	18. 8.15	2.11.18 scuttled, Ghent, on evacuation of Belgium.
V70	14.10.15	21.6.19 scuttled, Scapa Flow, 1.8.24 raised, used as salvage hulk, 1929 scrapped Scapa.
V71	1. 9.15	1921 scrapped Bo'ness.
V72	30.12.15	11.11.16 mined and sunk, Gulf of Finland.
V73	24. 9.15	21.6.19 scuttled, Scapa Flow, in shallow water. 1922 scrapped Grangemouth.
V74	29.10.15	3.10.18 scuttled, Bruges, on evacuation.
V75	15. 1.16	10.11.16 mined and sunk, Gulf of Finland.
V76	27. 2.16	11.11.16 mined and sunk, Gulf of Finland.
V77	28. 2.16	2.11.18 scuttled, Terneuzen Canal, on evacuation of Belgium.
V78	19. 2.16	21.6.19 scuttled Scapa Flow, 7.9.25 raised, scrapped Granton.

An S49 class destroyer at Scapa. [*Imperial War Museum*



V74, scuttled on October 3, 1918 at Bruges on evacuation. [*P. A. Vicary*

V79	18. 4.16	1933 scrapped.
V80	28. 4.16	21.6.19 scuttled Scapa Flow, but beached, to Japan, 1922 scrapped U.K.
V81	27. 5.16	21.6.19 scuttled Scapa Flow, but beached. Sank en route to breakers.
V82	27. 5.16	21.6.19 scuttled Scapa Flow, but beached, 1922 scrapped Portsmouth.
V83	5. 7.16	21.6.19 scuttled Scapa Flow, 1923 raised, 1928 scrapped Scapa.
V84	10. 1.16	26.5.17 mined and sunk, North Sea.

Notes: Completed 1915/16. Builders: V67, 68, 70, 75-77, 79, 83, 84, A. G. Vulcan, Hamburg. V69, 71-74, 78, 80-82 A. G. Vulcan, Stettin. 1916 V67-71, 73, 74, 77-81 rearmed 3—4·1 in. (3 × 1) guns. V70, 73, 78, 80-83 interned Scapa Flow 22.11.18. V71 1918 interned Stockholm, 13.5.20 allocated to U.K. V74 25.5.18 sunk Zeebrugge by mine, 7/18 raised. V79 14.6.20 surrendered Cherburg, to France as PIERRE DURAND.

G85 class G85-95

Displacement: 960 tons.
Dimensions: $272\frac{1}{4} \times 27\frac{1}{2} \times 11\frac{1}{2}$ ft.
Machinery: 2-shaft turbines, S.H.P. 24,000/26,500 = 34 knots. Oil fired.
Armament: 3—3·4 in. (3 × 1) guns: 6—20 in. (2 × 2, 2 × 1) T.T., 24 mines. G92-95 3—4·1 in. (3 × 1) guns.
Complement: 87.

G85	24. 7.15	21.4.17 sunk, Straits of Dover, R.N. destroyers BROKE and SWIFT.
G86	24. 8.15	21.6.19 scuttled, Scapa Flow, 14.7.25 raised, scrapped Granton.
G87	22. 9.15	30.3.18 mined and sunk, North Sea, with G93 and 94.
G88	16.10.15	8.4.17 torpedoed and sunk off Zeebrugge, R.N. C.M.B.
G89	11.12.15	21.6.19 scuttled, Scapa Flow, 12.22 raised, 1926 scrapped Scapa.
G90	15. 1.16	11.11.16 mined and sunk, Gulf of Finland.
G91	16.11.15	21.6.19 scuttled, Scapa Flow, 12.9.24 raised, scrapped Inverkeithing.
G92	15. 2.16	21.6.19 scuttled, Scapa Flow but beached, 1921/22 scrapped Sunderland.
G93	11. 7.16	30.3.18 mined and sunk North Sea, with G87 and 94.
G94.	1. 8.16	30.3.18 mined and sunk North Sea, with G87 and 93.
G95	29. 8.16	1921/22 scrapped Sunderland.

Notes: Completed 1916. Builders: Germaniawerft, Kiel. 1916 G85—89, 91 rearmed 3—4·1 in. (3 × 1) guns. G86, 89, 91, 92 interned Scapa Flow 22.11.18. G95 5.8.20 surrendered, to U.K.

G96

Displacement: 990 tons.
Dimensions: $277\frac{1}{2} \times 27\frac{1}{4} \times 11\frac{1}{2}$ ft.
Machinery: 2-shaft turbines, S.H.P. 25,000 = 34 knots. Oil fired.
Armament: 3—4·1 in. (3 × 1) guns: 6—20 in. (2 × 2, 2 × 1) T.T., 40 mines.
Complement: 87.

G96	16.9.16	26.6.17 mined and sunk off Belgian coast.

Notes: Completed 1916. Builder: Germaniawerft, Kiel.

B97 class B97-98

Displacement: 1,374 tons.
Dimensions: $321\frac{1}{2} \times 30\frac{1}{2} \times 12\frac{1}{4}$ ft.
Machinery: 2-shaft turbines, S.H.P. 36,000/40,000 = $35\frac{1}{2}/36\frac{1}{2}$ knots. Oil fired.
Armament: 4—3·4 in. (4 × 1) guns: 6—20 in. (2 × 2, 2 × 1) T.T., 24 mines.
Complement: 114.

B97	15.12.14	25.3.20 to Italy as CESARE ROSSAROL, 1939 scrapped.
B98	2. 1.15	21.6.19 scuttled, Scapa Flow, stranded and wrecked.

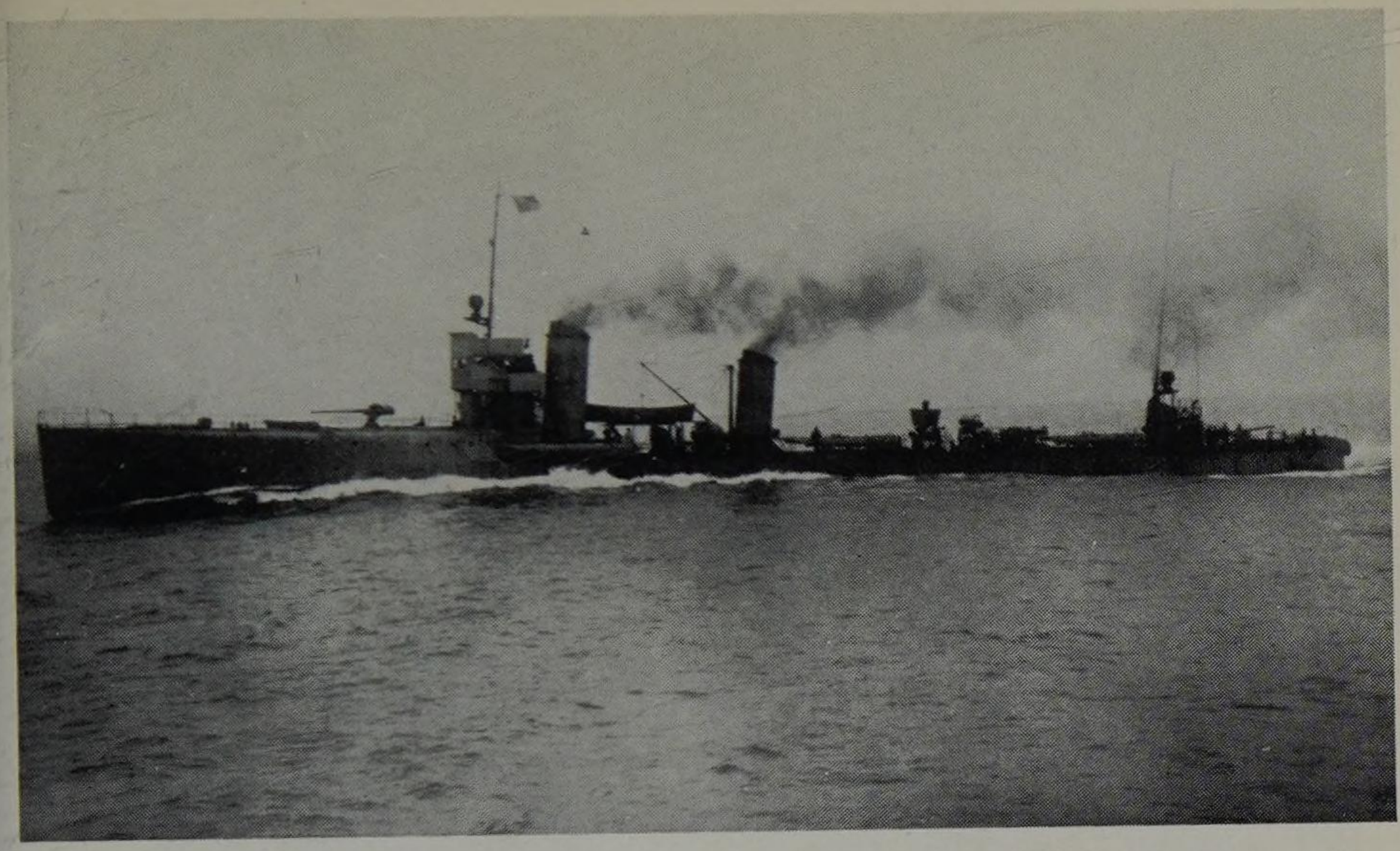
Notes: Completed 1915. Builders: Blohm & Voss, Hamburg. 1916 rearmed 4—4·1 in. (4 × 1) guns. B98 from 24.1.19 used as mail boat to interned German ships, Scapa Flow.

V99 class V99-100

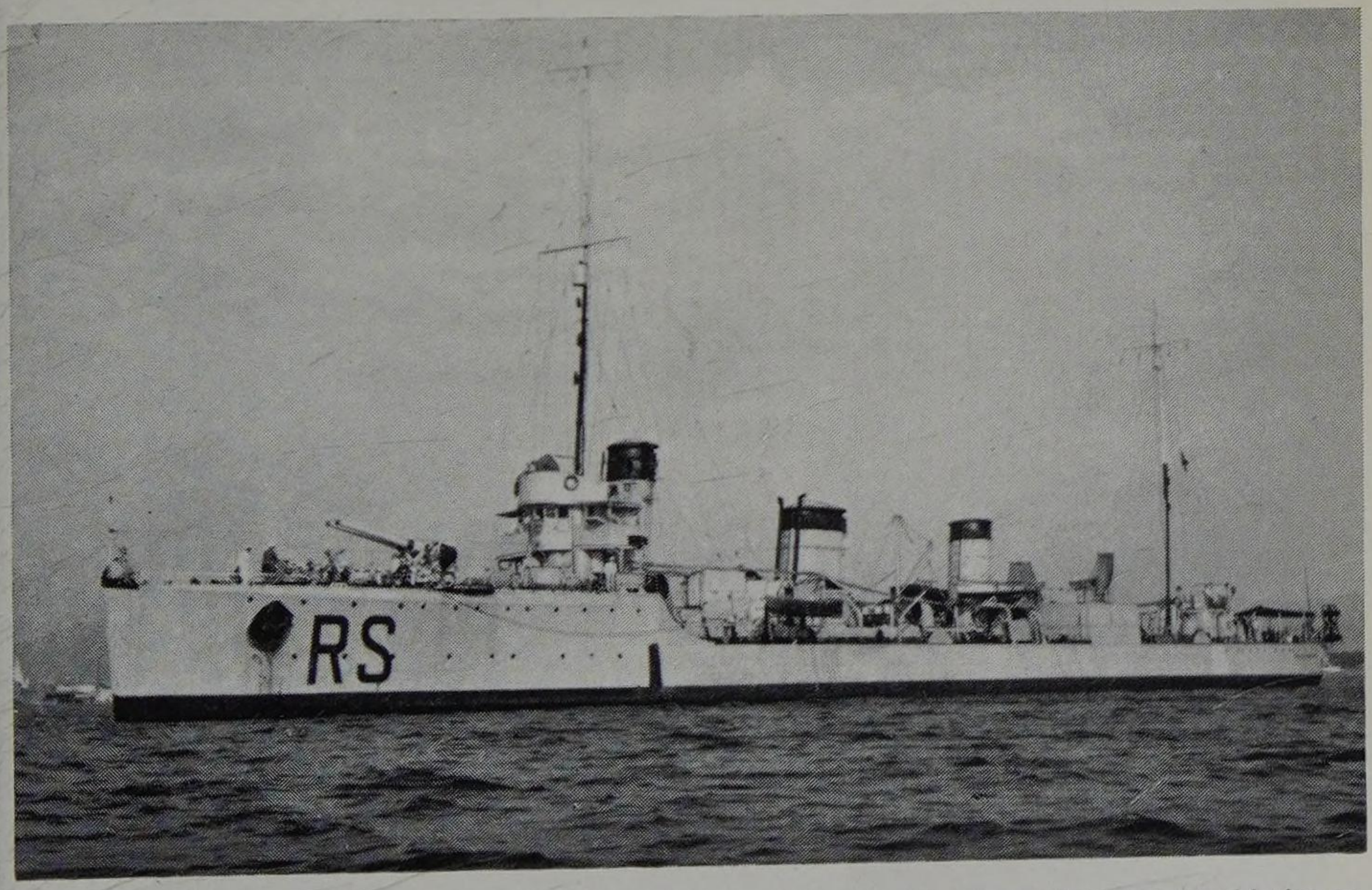
Displacement: 1,350 tons.
Dimensions: $324\frac{3}{4} \times 30\frac{1}{2} \times 12\frac{1}{4}$ ft.
Machinery: 2-shaft turbines, S.H.P. 40,000/42,000 = $36\frac{1}{2}/37$ knots. Oil fired.
Armament: 4—3·4 in. (4 × 1) guns: 6—20 in. (2 × 2, 2 × 1) T.T., 24 mines.
Complement: 114.

V 99	9.2.15	17.8.15 scuttled after battle damage, with Russian forces, Baltic Sea.
V100	8.3.15	1921 scrapped, France.

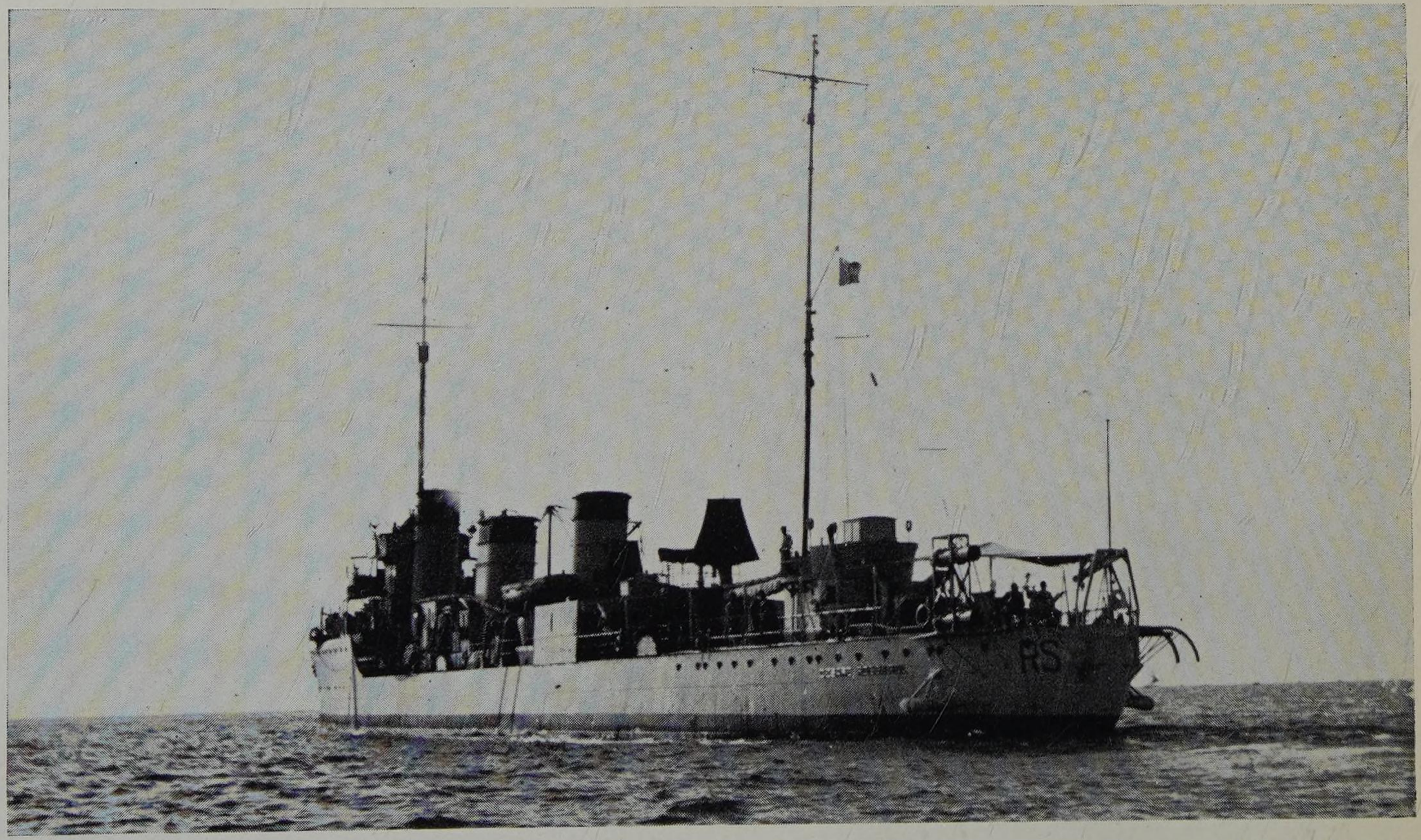
Notes: Completed 1915. Builders: A. G. Vulcan, Stettin. V100 1916 rearmed 4—4·1 in. (4 × 1) guns, 22.11.18 interned Scapa Flow. 21.6.19 scuttled, but beached, 8.19 raised and to France for scrapping.



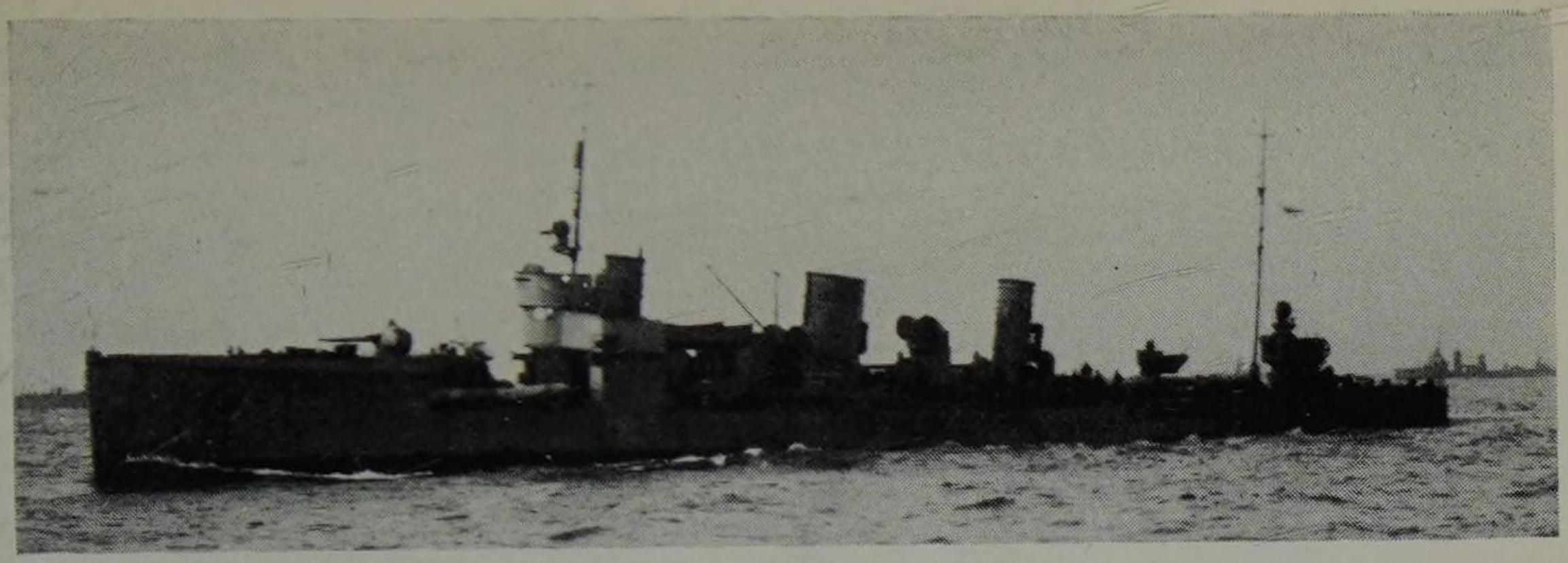
Destroyer G96. The only ship of her class. She was mined and sunk off the Belgian coast, on June 26, 1917. [*National Maritime Museum*



B97, the first German destroyer to have three funnels. Pictured in the early nineteen thirties as the Italian CESARE ROSSAROL. [*Major Aldo Fraccaroli*



Another photograph of CESARE ROSSAROL, ex-B97. [*Major Aldo Fraccaroli*



V99, scuttled after being damaged in action with Russian warships in 1915.
[*Imperial War Museum*

G101 class G101-104

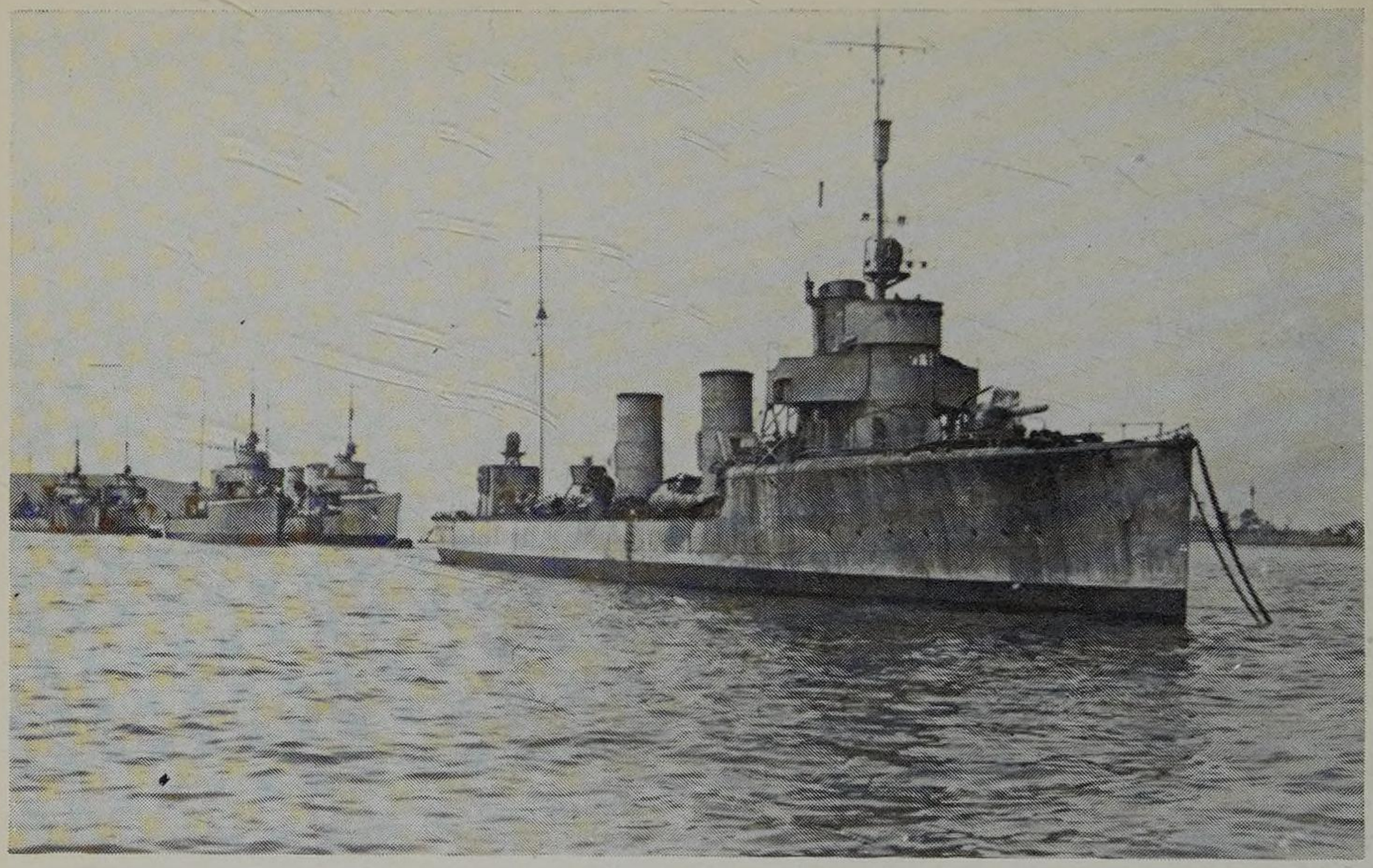
Displacement: 1,116 tons.
Dimensions: $312\frac{3}{4} \times 30\frac{1}{2} \times 12$ ft.
Machinery: 2-shaft turbines, S.H.P. 28,000/29,500 = $33\frac{1}{2}$ knots. Oil fired.
Armament: 4—3·4 in. (4 × 1) guns: 6—20 in. (2 × 2, 2 × 1) T.T., 24 mines.
Complement: 104.

G101	12. 8.14	21.6.19 scuttled, Scapa Flow, 14.4.26 raised, scrapped Charleston.
G102	16. 9.14	21.6.19 scuttled Scapa Flow in shallow water, salved, 1919 to U.S.A., 17.2.20 sunk as target by bombing, off Cape Henry, U.S.A.
G103	14.11.14	21.6.19 scuttled, Scapa Flow, 30.9.25 raised, 11.25 foundered in storm n. of Scotland, en route to breakers.
G104	28.11.14	21.6.19 scuttled, Scapa Flow, 30.4.26 raised, scrapped Charleston.

Notes: Completed 1915. Builders: Germaniawerft, Kiel. 1916 rearmed 4—4·1 in. (4 × 1) guns. All interned Scapa Flow 22.11.18. Originally ordered for Argentina as SANTIAGO, SAN LUIS, SANTA FE, TECUMAN.

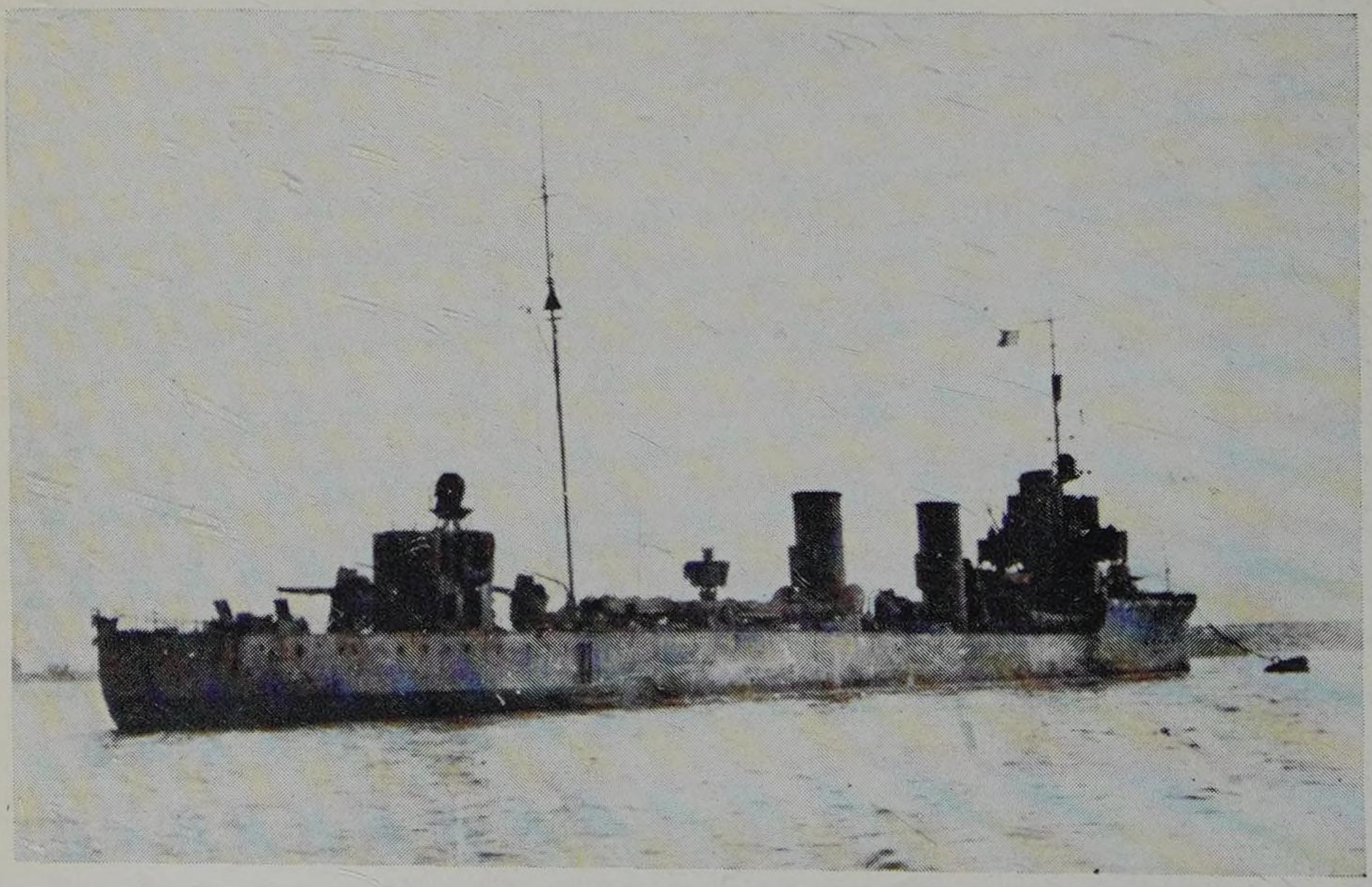
V105 class V105-108

Originally ordered by Holland but taken over by Germany. Reclassed as Torpedo Boats. Details in that section.



Destroyer of G101 class at Scapa

[*Imperial War Museum*



Another view of a G101 class destroyer. All four ships of this class were scuttled at Scapa Flow

[*Imperial War Museum*

B109 class B109-112

Machinery: 2-shaft turbines, S.H.P. 40,000/40,700 = 36/37½ knots.
All other details as B97 class but different disposition of armament.

B109	11.3.15	21.6.19 scuttled, Scapa Flow, 27.3.26 raised, scrapped Charleston.
B110	31.3.15	21.6.19 scuttled, Scapa Flow, 11.12.25 raised, scrapped Granton.
B111	8.6.15	21.6.19 scuttled, Scapa Flow, 12.3.26 raised, scrapped Granton.
B112	17.6.15	21.6.19 scuttled, Scapa Flow, 11.2.26 raised, scrapped Granton.

Notes: Completed 1915. Builders: Blohm & Voss, Hamburg. All interned Scapa Flow 22.11.18.

S113 class S113-115

Displacement: 2,060 tons.
Dimensions: 337¾ × 33½ × 14½ ft.
Machinery: 2-shaft turbines, S.H.P. 45,000/56,000 = 36/37 knots. Oil fired.
Armament: 4—5·9 in. (4 × 1) guns: 4—24 in. (2 × 2) T.T., 40 mines.
Complement: 188.

S113	31.1.18	1936 stricken, later scrapped.
S114	11.4.18	1919 broken up Bremerhaven, before completion.
S115	20.7.18	1919 broken up Bremerhaven, before completion.

Notes: S113 completed 1919. Builders: Schichau, Elbing. The largest and most heavily armed contemporary destroyers, designed as leaders. Did not fulfil expectations and were still under modifications at end of war. S113 5.11.19 stricken, 23.5.20 surrendered Cherbourg, to France as AMIRAL SÉNES.

V116 class V116-118

Displacement: 2,060 tons.
Dimensions: 352¾ × 34 × 14½ ft.
Machinery: 2-shaft turbines, S.H.P. 45,000/55,300 = 35/36 knots. Oil fired.
Armament: 4—5·9 in. (4 × 1) guns: 4—24 in. (2 × 2) T.T., 40 mines.
Complement: 188.

V116	2.3.18	1937 stricken and scrapped.
V117	4.5.18	3.11.19 stricken, 1921 broken up Hamburg, before completion.
V118	6.7.18	,, ,, ,, ,,

Notes: V116 completed 1918. Builders: A. G. Vulcan, Stettin. See remarks under S113 class. V116 23.5.20 surrenederd Cherbourg, to Italy as PREMUDA.

G119 class G119-121

Displacement: 2,060 tons.
Dimensions: $523\frac{1}{2} \times 33\frac{1}{2} \times 14\frac{1}{2}$ ft.
All other details as S113 class.

G119	8.10.18	3.11.19 stricken, 1921 broken up Kiel, before completion.
G120	—	,, ,, ,,
G121	—	,, ,, ,,

Notes: Builders: Germaniawerft, Kiel.

V116 photographed in 1931 as the Italian PREMUDA. These were the largest German destroyers and the only ones to mount 5.9inch guns. [*Major Aldo Fraccaroli*

B122 class B122-124

Displacement: 2,040 tons.
Dimensions: 356 × 33½ × 14½ ft.
All other details as S113 Class.

B122	16.10.18	3.11.19 stricken, 1921 broken up Kiel before completion.
B123	—	3.11.19 stricken, 1921 broken up Kiel before completion.
B124	26.10.18	3.11.19 stricken, 1921 broken up Hamburg before completion.

Notes: Builders: Blohm & Voss, Hamburg.

V125 class V125-130

Displacement: 924 tons.
Dimensions: 269 × 27½ × 12½ ft.
Machinery: 2-shaft turbines, S.H.P. 23,500/25,150 = 34/34½ knots. Oil fired.
Armament: 3—4·1 in. (3 × 1) guns: 6—20 in. (2 × 2, 2 × 1) T.T., 24 mines.
Complement: 105.

V125	18. 5.17	21.6.19 scuttled, Scapa Flow, but beached, 7.19 salved, 1922 scrapped Newport.
V126	30. 6.17	as above but allocated to France, 1925 scrapped Lorient.
V127	28. 7.17	as above but allocated to Italy, 1922 scrapped Dordrecht.
V128	11. 8.17	as above but scrapped Grangemouth.
V129	19.10.17	21.6.19 scuttled, Scapa Flow, 11.8.25 raised, scrapped Inverkeithing.
V130	20.11.17	1934 stricken, scrapped.

Notes: Completed 1916/17. Builders A.G. Vulcan, Stettin. V125-128 22.11.18 and V129 6.12.18 interned Scapa Flow. V130 3.8.20 surrendered Cherbourg, to France as BUINO.

S131 class S131-139

Displacement: 919 tons.
Dimensions: 272¾ × 27½ × 12½ ft.
Machinery: 2-shaft turbines, S.H.P. 23,700/24,000 = 33/34 knots. Oil fired.
Armament: 3—4·1 in. (3 × 1) guns: 6—20 in. (2 × 2, 2 × 1) T.T., 24 mines.
Complement: 105.

S131	3. 3.17	21.6.19 scuttled, Scapa Flow, 19.6.25 raised, scrapped Granton.
S132	19. 5.17	15.7.21 sunk as target off Cape Henry, U.S.A.

S133	1. 9.17	1934 scrapped.
S134	25. 8.17	1935 scrapped.
S135	27.10.17	1935 scrapped.
S136	1.12.17	21.6.19 scuttled, Scapa Flow, 3.4.25 raised, 1928 scrapped Scapa.
S137	9. 3.18	21.6.19 scuttled, Scapa Flow in shallow water, 7.19 salved, scrapped Bo'ness.
S138	22. 4.18	21.6.19 scuttled, Scapa Flow, 1.5.25 raised, 1926 scrapped Inverkeithing.
S139	24.11.17	1934 scrapped.

Notes: Completed 1917/18. Builders: Schichau, Elbing. S131, 132, 136, 137, 138 interned Scapa Flow 22.11.18. S132 scuttled in shallow water 21.6.19, 7.19 salved and to U.S.A., sunk by gunfire U.S. battleship DELAWARE and destroyer HERBERT. S133 5.11.19 stricken, 20.7.20 surrendered Cherbourg, to France as CHASTANG. S135 as S133 but MAZARÉ. S139 as S133 but DELIGNY. S134 as above but surrendered 14.6.20 as VESCO.

V140 class V140-144

Displacement: 924 tons.
Dimensions: 269 × 27½ × 12½ ft.
Machinery: 2-shaft turbines, S.H.P. 23,500 = 34 knots. Oil fired.
Armament: 3—4·1 in. (3 × 1) guns: 6—20 in. (2 × 2, 2 × 1) T.T., 24 mines.
Complement: 105.

V140	18	3.11.19 stricken, 1921 scrapped Kiel before completion.
V141	18	,, ,, ,,
V142	25 .9.18	,, ,, ,,
V143	25 .9.18	,, ,, ,,
V144	10.10.18	,, ,, ,,

Note: Builders: A.G. Vulcan, Hamburg.

H145 class H145-147

Displacement: 990 tons.
Dimensions: 277 × 27½ × 12½ ft.
Machinery: 2-shaft turbines, S.H.P. 24,000 = 33½/34 knots. Oil fired.
Armament: 3—4·1 in. (3 × 1) guns: 6—20 in. (2 × 2 2 × 1) T.T., 24 mines.
Complement: 105.

H145	11.11.17	21.6.19 scuttled, Scapa Flow, 14.3.25 raised, scrapped Scapa.
H146	23. 1.18	1935 scrapped.
H147	13. 3.18	1935 scrapped.

Notes: Completed 1918. Builders: Howaldtswerke, Kiel. H145 22.11.18 interned Scapa Flow. H146 23.5.20 surrendered Cherbourg, to France as RAGEOT DE LA TOUCHE. H147 completed 1920, 20.7.20 surrendered, Cherbourg, to France as MARCEL DELAGE.

G148 class G148-150

Displacement: 1.020 tons.
Dimensions: 280 × 27½ × 12½ ft.
Machinery: 2-shaft turbines, S.H.P. 24,500 = 32½ knots. Oil fired.
Armament: 3—4·1 in. (3 × 1) guns: 6—20 in. (2 × 2, 2 × 1) T.T., 40 mines.

G148	—	3.11.19 stricken, broken up on stocks.
G149	—	,, ,, ,,
G150	—	,, ,, ,,

Notes: Builders: Germaniawerft, Kiel.

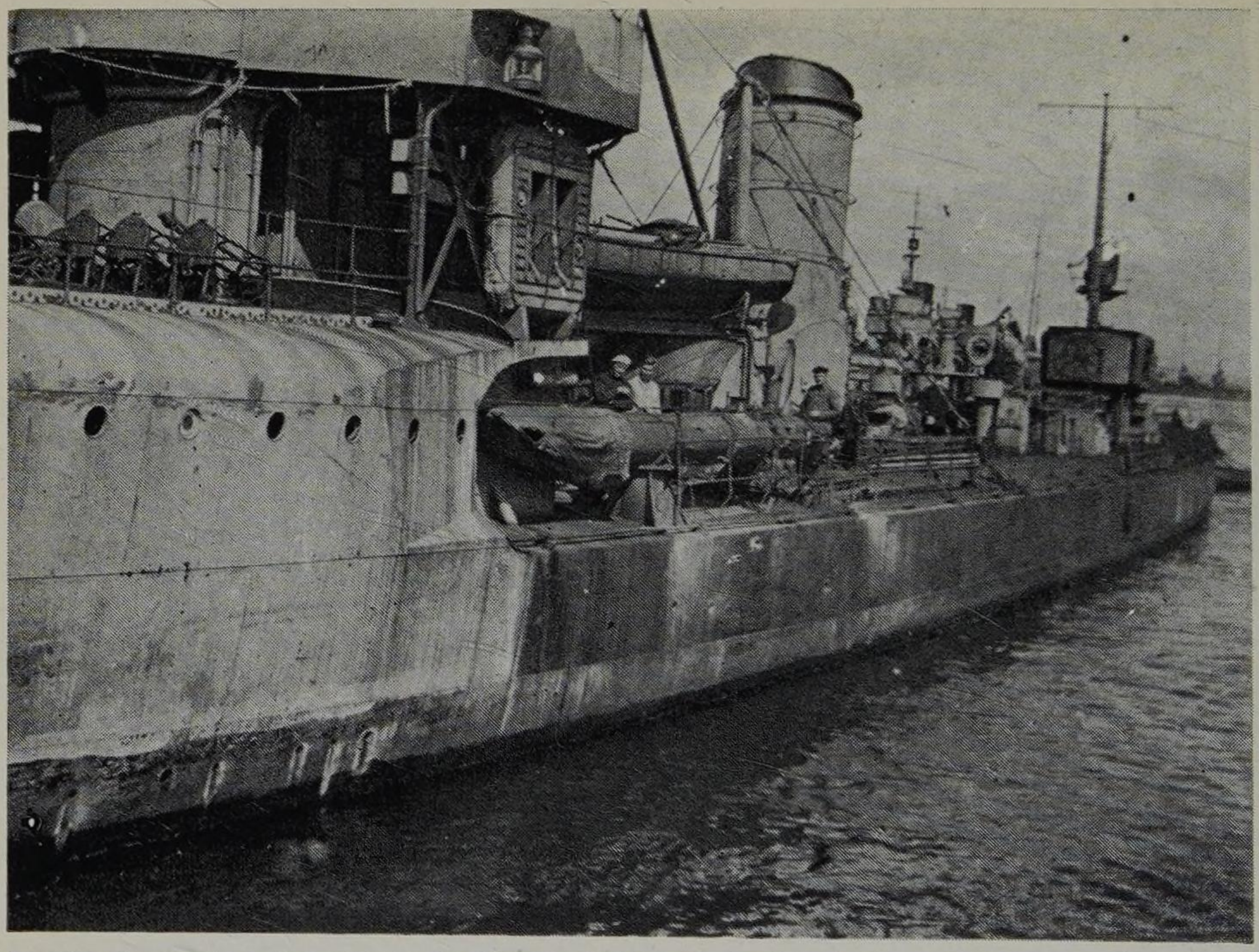
Ww151

Details as above.

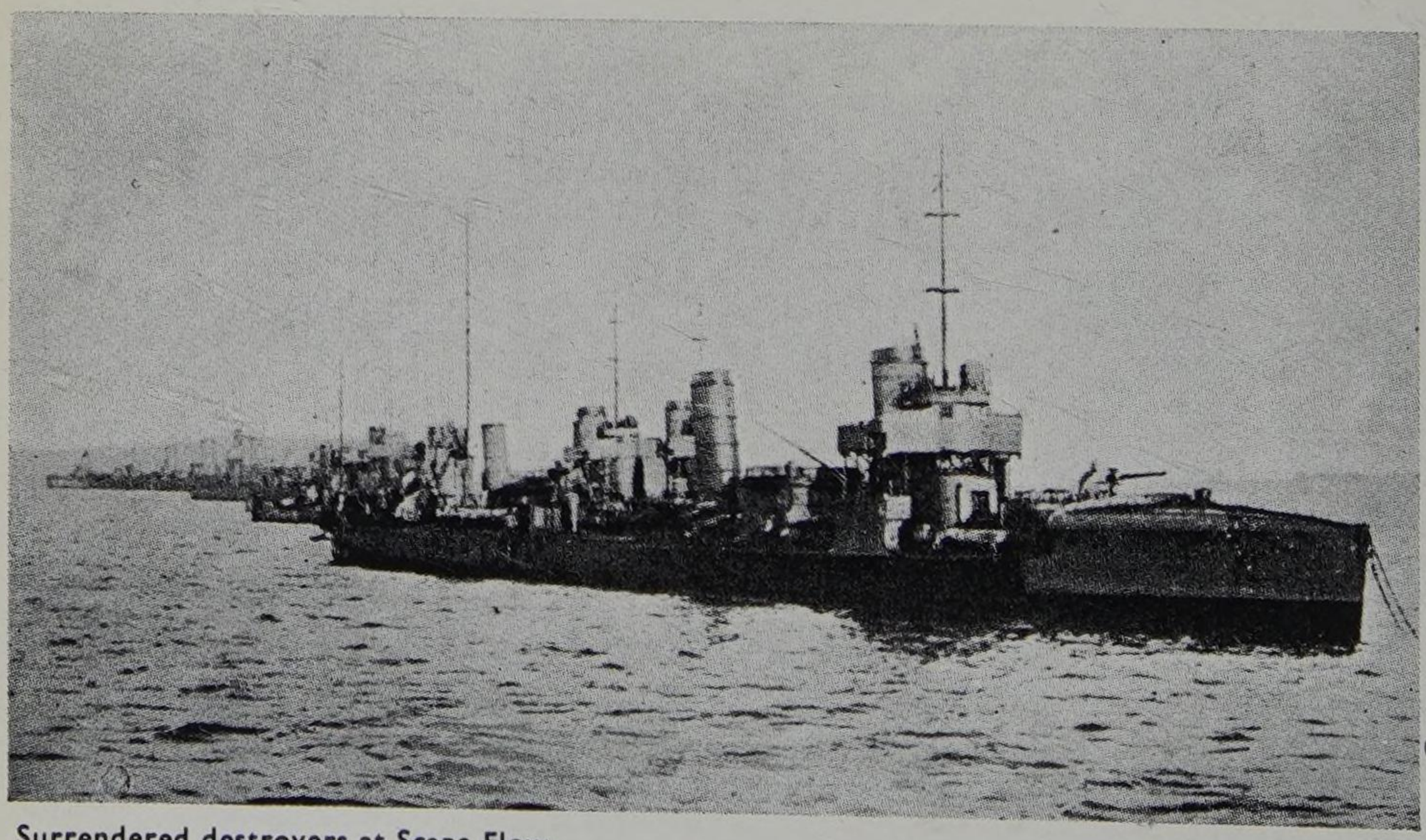
Ww151	—	1920 broken up on stocks.

Notes: Builder: Wilhelmshaven D.Y. The only destroyer to be laid down by this yard.

A line of German destroyers anchored in the Forth after surrender. [*P. A. Vicary*



Details of torpedo tubes mounted at break of forecastle in many German destroyers.
[*Imperial War Museum*



Surrendered destroyers at Scapa Flow.

S152 class S152-157

Displacement: 1,020 tons.
Dimensions: 277 × 27½ × 12½ ft.
Machinery: 2-shaft turbines, S.H.P. 22,000 = 32½ knots. Oil fired.
Armament: 3—4·1 in. (3 × 1) guns: 6—20 in. (2 × 2, 2 × 1) T.T., 24 mines.

S152	18	3.11.19 stricken, broken up before completion.
S153	18	,, ,, ,,
S154	18	,, ,, ,,
S155	18	,, ,, ,,
S156	18	,, ,, ,,
S157	18	,, ,, ,,

Notes: Builders: Schichau, Elbing.

V158 class V158-165

Displacement: 1,030 tons.
Dimensions: 269 × 27½ × 12½ ft.
Machinery: 2-shaft turbines, S.H.P. 26,500 = 32½ knots. Oil fired.
Armament: 3—4·1 in. (3 × 1) guns: 6—20 in. (2 × 2, 2 × 1) T.T., 24 mines.

V158	1.11.18	3.11.19 stricken, broken up before completion.
V159	1.11.18	,, ,, ,,
V160	18	,, ,, ,,
V161	18	,, ,, ,,
V162	18	,, ,, ,,
V163	—	3.11.19 stricken, broken up on stocks.
V164	—	,, ,, ,,
V165	—	,, ,, ,,

Notes: Builders: A. G. Vulcan, Stettin.

H166 class H166-169

Displacement: 1,061 tons,
Dimensions: 280 × 27½ × 12½ ft.
Machinery: 2-shaft turbines, S.H.P. 26,000 = 32½ knots. Oil fired.
Armament: 3—4·1 in. (3 × 1) guns: 6—20 in. (2 × 2, 2 × 1) T.T., 24 mines.

H166	25.10.19	3.11.19 stricken, 1920 broken up Kiel before completion.
H167	26.10.18	,, ,, ,,
H168	8.11.19	,, ,, ,,
H169	19.10.18	,, ,, ,,

Notes: Builders: Howaldtswerke, Kiel.

V170 class V170-177

Displacement: 1,268 tons.
Dimensions: $303\frac{1}{2} \times 30 \times 12\frac{3}{4}$ ft.
Machinery: 2-shaft geared turbines, S.H.P. 36,000 = 35 knots. Oil fired.
Armament: 4—4·1 in. (4 × 1) guns: 6—20 in. (2 × 2, 2 × 1) T.T., 40 mines.

V170 to V177	—	Ordered 1918, builders A. G. Vulcan, Stettin. Some broken up on stocks, others not laid down. All cancelled.

S178 class S178-185

Displacenemt: 1,268 tons.
Dimensions: 306 × 30 × $12\frac{3}{4}$ ft.
Machinery: 2-shaft geared turbines, S.H.P. 34,000 = 35 knots. Oil fired.
Armament: 4—4·1 in. (4 × 1) guns: 6—20 in. (2 × 2, 2 × 1) T.T., 40 mines.

S178	—	Order cancelled, completed as merchant ship.
S179	—	,, ,, ,,
S180 to S185	—	Builders: Schichau, Elbing. Order cancelled, broken up on stocks.

H186 class H186-202

Machinery: 2-shaft geared turbines, S.H.P. 38,000 = 35 knots.
All other details as V170 class.

H186	Order cancelled, completed as merchant ship.
H187	Order cancelled, completed as merchant ship.
H188 to H202	Order cancelled, broken up on stocks. Builders: Howaldtswerke, Kiel.

V203 class V203-210

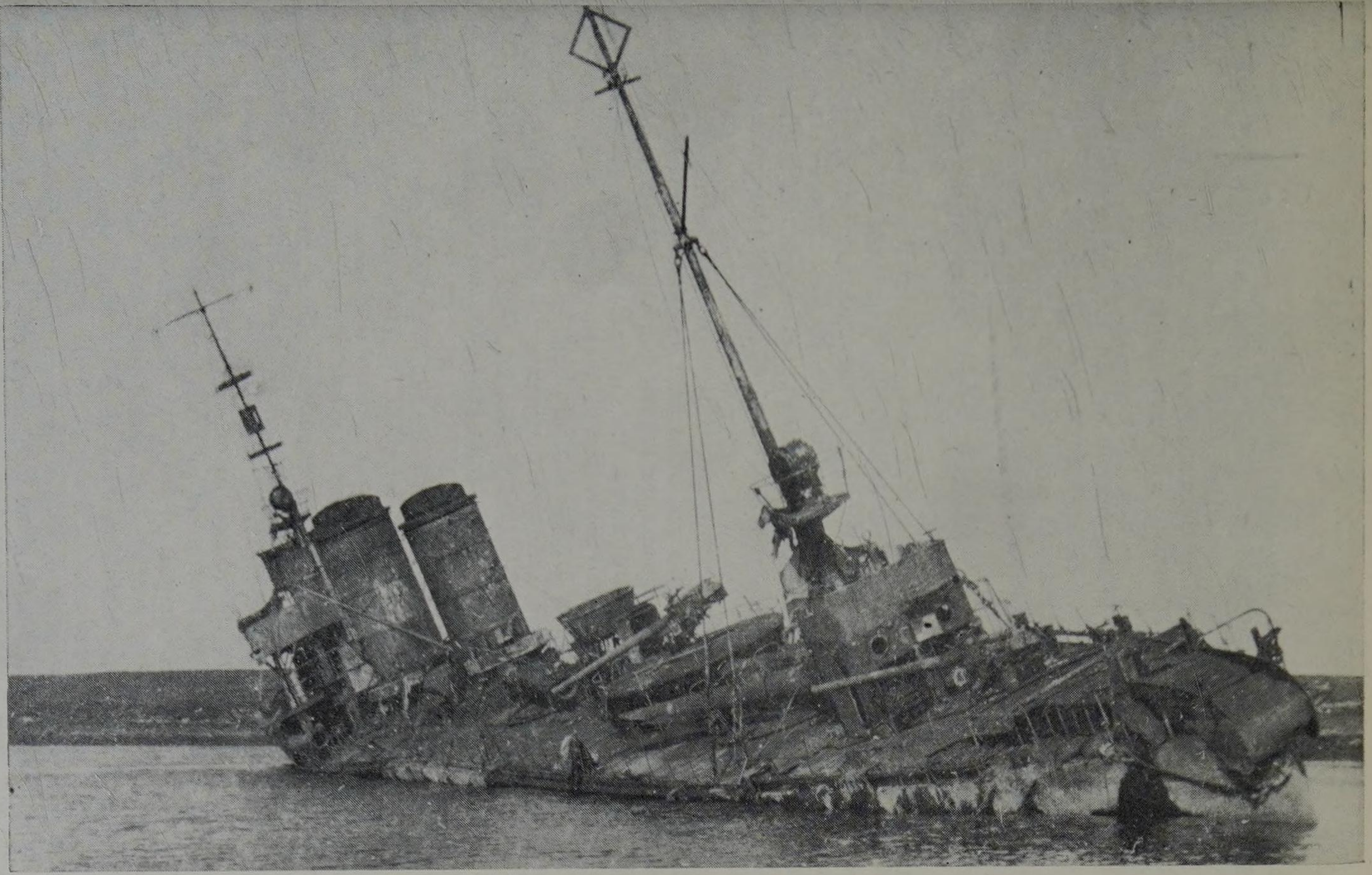
All details as V170 class.

V203 to V210	All cancelled. Builders: A. G. Vulcan, Stettin.

S211 class S211-223

All details as S178 class.

S211 to S223	All cancelled. Builders: Schichau, Danzig.



German destroyer beached after scuttling. [P. A. Vicary

PART 4 — SUBMARINES

In 1914 the potential of the submarine was not realised, but as the war progressed so did the importance of the German submarine arm until in 1916 and later years it was the main offensive arm of the German Navy.

The first submarines built in Germany were the three Karp class ordered by Russia in 1904. U.1., Germany's first submarine was not completed until 1906.

The German designers, unlike those in Britain, refused to countenance the petrol engine and the first U-boats employed Körting heavy oil engines. The tendency of these engines to emit clouds of smoke and sparks whilst running on the surface was counterbalanced by the safety of their less volatile fuel.

From the first, double hulls and twin screws (except in the smaller UB and UC types) were used.

In 1908 suitable diesel engines were designed and from U.19 onwards, launched in 1912, these were used exclusively, again with the exception of the smaller UC boats which retained the heavy oil engines already in production

As the war progressed, various modifications were introduced to the successful "Mittel-U" type. These included the familiar shark like bows, net cutters and jumping wires, these latter proving effective against the growing number of net defences.

As the primary aim was to sink merchant ships, guns of heavier calibre were fitted to new construction and older boats modified, so that merchant ships could be sunk by gunfire and the limited number of torpedoes reserved for more valuable and dangerous targets. Gun armament reached its peak in the 2—5·9 inch guns fitted to the largest submarines, which could outrange any gun fitted in defensively armed merchant ships.

Another variant in the U series were minelayers. The UE-I type (U.71-U.80) and UE-II type (U.117-U.126) discharged mines from two horizontal shafts and by reason of their range could lay mines in hitherto unsuspected areas.

Before America's entry into the war in 1917, merchant submarines had been introduced and one of these, DEUTSCHLAND, made two merchant voyages to the U.S.A. With American participation these submarines were converted to naval use as submarine cruisers, where although slow, their range of 13,000 miles gave them a very extended range of operations. Fortunately the war ended before the majority of the sumbarine cruisers (U.117-U.150) were ready for service.

Two new series were introduced to extend submarine warfare into the North Sea, Baltic and Mediterranean and Black Seas.

These were the UB (coastal) and UC (minelayer) series. The smaller boats of these types were sent to Pola and Antwerp in sections by rail for erection, while the larger ones made the passage under their own power to the new theatres of operations.

Again, as the war progressed, so did the size and performance of the UB and UC series, and although primarily minelayers, UC boats were given adequate gun and torpedo armament for offensive purposes.

The greatest number of German submarines at sea at any one time and known to be on operations was 61 in June 1917, and roughly 360 boats were employed in the submarine campaign, of which 198 were lost.

In this section two sets are given for both displacement and speed, in both instances, the first figure denotes surface, and the second, submerged.

SUBMARINES

U.1

Displacement: 238/283 tons.
Dimensions: 139 × 12¼ × 10½ ft.
Machinery: 2-shaft heavy oil/electric motors, B.H.P. 400/400 = 10·8/8·7 knots.
Armament: 1—18 in. (bow) T.T.
Complement: 22.

U.1	Germaniawerft, Kiel	4.8.06	Museum exhibit, Deutsches Museum, Munich.

Notes: Completed 1906, 14.12.06 experimental and training, 19.2.19 stricken, sold, refitted as museum exhibit by builders. Damaged by bombing in W.W. II but restored.

U.2

Displacement: 341/430 tons.
Dimensions: 149 × 18 × 9¾ ft.
Machinery: 2-shaft heavy oil/electric motors, B.H.P. 600/630 = 13·2/9 knots.
Armament: 4—18 in. (2 bow, 2 stern) T.T.
Complement: 22.

U.2	Danzig D.Y.	18.6.08	19.2.19 stricken, scrapped.

Notes: Completed 1908, training and experimental during war.

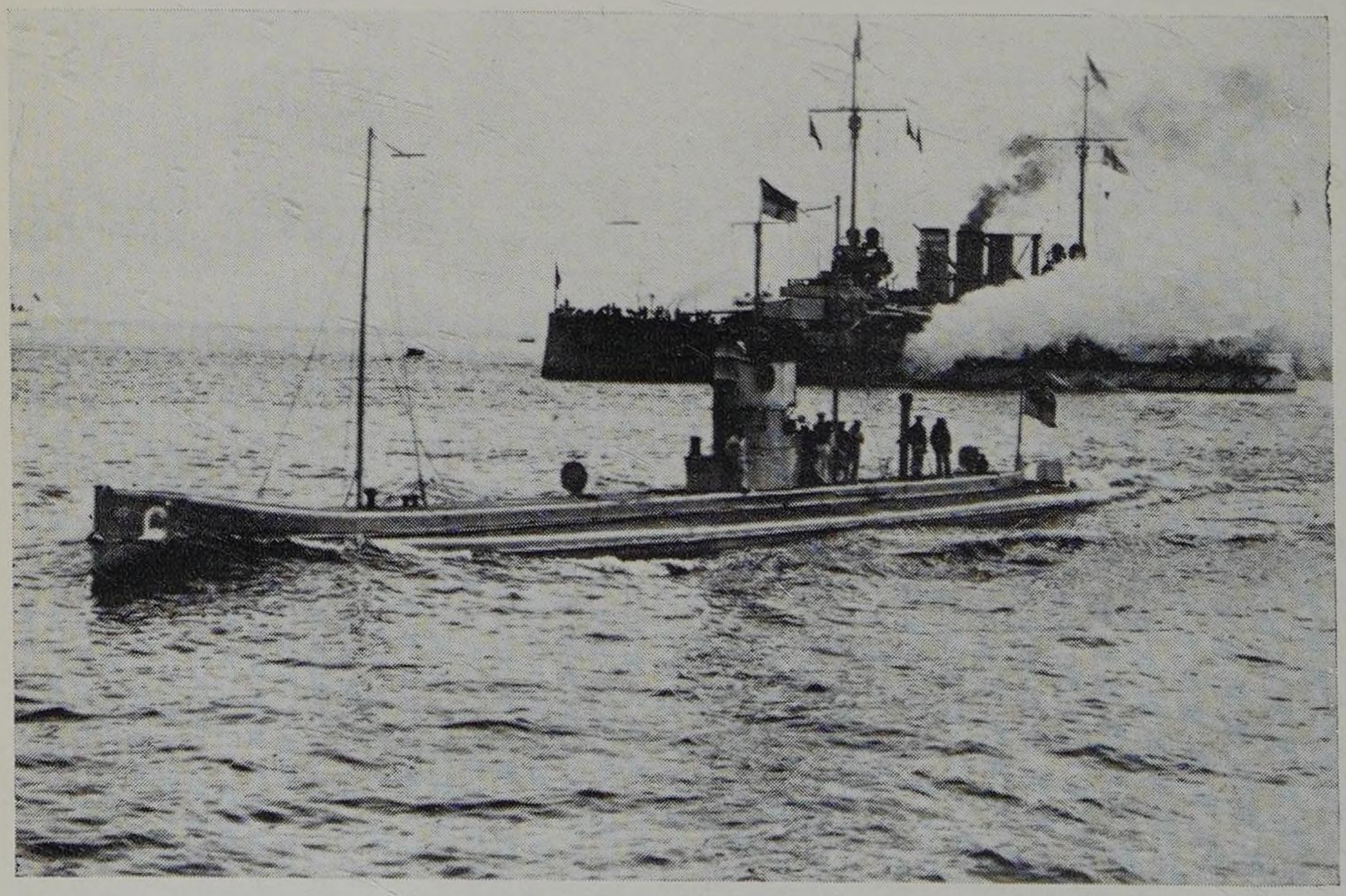
U.3 class U.3-U.4

Displacement: 421/510 tons.
Dimensions: 168¼ × 18¼ × 9¾ ft.
Machinery: 2-shaft heavy oil/electric motors, B.H.P. 600/1,030 = 11·8/9·4 knots.
Armament: 4—18 in (2 bow, 2 stern) T.T., 1—37 mm. gun.
Complement: 22.

U.3	27.3.09	1918 foundered en route to breakers at Preston.
U.4	18.5.09	1919 scrapped, Kiel.

Notes: Completed 1909, builders: Danzig D.Y. U.3 17.1.11 sunk by accident, salved, 1.12.18 surrendered.

German submarine crews watching an aeroplane. The submarine approaching is of the small UB minelayer type with no gun armament.
[*Imperial War Museum*



U6. Note heavy exhaust emitted by Körting heavy oil engine. Battleship of OLDENBURG class in right background.
[*National Maritime Museum*

U.5 class U.5-U.8

Displacement: 506/636 tons.
Dimensions: 188 × 18¼ × 11¼ ft.
Machinery: 2-shaft heavy oil/electric motors, B.H.P. 900/1,040 = 13·4/10·2 knots.
Armament: 4—18 in. (2 bow, 2 stern) T.T., 1—37 mm. gun.
Complement: 29.

U.5	8.1.10	18.12.14 mined and sunk, English Channel.
U.6	18.5.10	15.9.15 torpedoed and sunk off Norway, R.N. submarine E.16.
U.7	28.7.10	21.1.15 torpedoed in error, North Sea, German submarine U.22.
U.8	14.3.11	4.3.15 sunk, Dover Straits, R.N. destroyers MAORI and GURKHA.

Notes: Completed 1910/11, builders: Germaniawerft, Kiel. U.6 and U.8 1915 1—4 pdr. gun added.

U.9 class U.9-U.12

Displacement: 493/611 tons.
Dimensions: 188 × 19¾ × 11½ ft.
Machinery: 2-shaft heavy oil/electric motors, B.H.P. 1,000/1,160 = 14/8 knots.
Armament: 4—18 in. (2 bow, 2 stern) T.T., 1—37 mm. gun.
Complement: 29.

U. 9	22.2.10	1919 scrapped, Morecambe.
U.10	24.1.11	27.5.16 mined and sunk, Baltic.
U.11	2.4.10	9.12.14 mined and sunk, Dover Straits.
U.12	6.5.10	10.3.15 rammed and sunk, North Sea, R.N. destroyer ARIEL.

Notes: Completed 1910/11, builders: Danzig D.Y. U.9 was the submarine in which, on 22.9.14 Lieut. Otto Weddigen sank British armoured cruisers HOGUE, CRESSY and ABOUKIR. U.9, U.10 1—4 pdr. gun added 1915, removed from U.9 in 1917.

U.13 class U.13-U.15

Displacement: 516/644 tons.
Dimensions: 190 × 19¾ × 11½ ft.
Machinery: 2-shaft heavy oil/electric motors, B.H.P. 1,200/1,160 = 14·8/10·7 knots.
Armament: 4—18 in. (2 bow, 2 stern) T.T., 1—4 pdr. gun.
Complement: 29.

U.13	16.12.10	9.8.14 mined and sunk off Heligoland.
U.14	11. 7.11	5.6.15 rammed and sunk, North Sea, trawler HAWK.
U.15	18. 9.11	9.8.14 rammed off Fair Isle, R.N. cruiser BIRMINGHAM.

Notes: Completed 1912. Builders: Danzig D.Y. U.13 German accounts give loss by ramming by R.N. battleship.

U.16

Displacement: 489/627 tons.
Surface speed: 15·5 knots.
Other details as U.13 class.

U.16	23.8.11	8.2.19 foundered, North Sea, en route to surrender

Notes: Completed 1911. Builders: Germaniawerft, Kiel.

U.17 class U.17-U.18

Displacement: 564/691 tons.
Dimensions: $204\frac{1}{2} \times 19\frac{3}{4} \times 11\frac{1}{2}$ ft.
Machinery: 2-shaft heavy oil/electric motors, B.H.P. 1,400/1,120 = 15/9·5 knots.
Armament: 4—18 in. (2 bow, 2 stern) T.T., 1—37 mm. gun.
Complement: 29.

U.17	16.4.12	1919 scrapped, Kiel.
U.18	25.8.12	23.11.14 scuttled off Scapa Flow after damage by gunfire.

Notes: Completed 1912, builders: Danzig D.Y. U.17 1—4 pdr. gun added 1915, 1917 all guns removed. U.18 Some accounts give loss as ramming by trawler.

U.19 class U.19-U.22

Displacement: 650/837 tons.
Dimensions: $210\frac{1}{2} \times 20 \times 11\frac{3}{4}$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 1,700/1,200 = 15·4/9·5 knots.
Armament: 4—20 in. (2 bow, 2 stern) T.T., 1—3·4 in. gun.
Complement: 35.

U.19	10.10.12	24.11.18 surrendered, 1919/20 scrapped, Blyth.
U.20	18.12.12	5.11.16 scuttled after stranding on Danish coast, 1925 broken up.
U.21	8. 2.13	22.2.19 foundered, North Sea, en route to surrender.
U.22	6. 3.13	1.12.18 surrendered, 1919/20 scrapped, Blyth.

Notes: Completed 1913. Builders: Danzig D.Y. 1916 second 3·4 in. gun added. U.19 1—4·1 in. gun only.

U.23 class U.23-U.26

Displacement: 669/864 tons.
Dimensions: $212\frac{1}{2} \times 20\frac{3}{4} \times 11\frac{3}{4}$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 1,800/1,200 = 16·75/10·3 knots.
Armament: 4—20 in. (2 bow, 2 stern) T.T., 1—3·4 in. gun.
Complement: 35.

U.23	12. 4.13	20.7.15 torpedoed and sunk, off Fair Isle, R.N. submarine C.27.
U.24	24. 5.13	22.11.18 surrendered, 1922 scrapped, Swansea.
U.25	12. 7.13	23.2.19 surrendered, to France, 1921/22 scrapped, Cherbourg.
U.26	16.10.13	9.15 mined and sunk, Baltic.

Notes: Completed 1913/14. Builders Germaniawerft, Kiel. U.25 at varying times mounted a second 3·4 in. gun.

U.27 class U.27-U.30

Displacement: 675/867 tons.
Dimensions: $212\frac{1}{2} \times 20\frac{3}{4} \times 11\frac{3}{4}$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 2,000/1,200 = 16·75/9·8 knots.
Armament: 4—20 in. (2 bow, 2 stern) T.T., 2—3·4 in. (2 × 1) guns.
Complement: 35.

U.27	14. 7.13	19.8.15 sunk off Scillies, R.N. Q ship BARALONG.
U.28	30. 8.13	2.9.17 destroyed by explosion, White Sea, when sinking ammunition ship OLIVE BRANCH.
U.29	11.10.13	18.3.15 rammed and sunk off Moray Firth, R.N. battleship DREADNOUGHT.
U.30	15.11.13	22.11.18 surrendered, 1919/20 scrapped, Blyth.

Notes: Completed 1914, builders: Danzig D.Y. U.30 22.6.15 lost by accident off mouth of Ems, 27.8.15 salved, 1917 training duties; 1918 1—4·1 in. gun.

U31. class U.31-U.41

Displacement: 685/878 tons.
Dimensions: $212\frac{1}{2} \times 20\frac{3}{4} \times 11\frac{3}{4}$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 1,850/1,200 = 16·7/9·7 knots.
Armament: 4—20 in. (2 bow, 2 stern) T.T., 1—3·4 in. gun.
Complement: 35.

U.31	7. 1.14	1.15 mined? North Sea.
U.32	28. 1.14	8.5.18 sunk N. of Malta, R.N. sloop WALLFLOWER.
U.33	19. 5.14	16.1.19 surrendered, 1919/20 scrapped, Blyth.
U.34	9. 5.14	9.11.18 sunk off Gibraltar, R.N. Q ship PRIVET.
U.35	18. 4.14	26.11.18 surrendered, 1919/20 scrapped, Blyth.
U.36	6. 6.14	24.7.15 sunk off Hebrides, R.N. Q ship PRINCE CHARLES.
U.37	25. 8.14	1.4.15 mined and sunk, English Channel.
U.38	9. 9.14	23.2.19 surrendered, to France, 1921 scrapped, Brest.
U.39	26. 9.14	18.5.18 interned Ferrol, Spain, after air attack, 1918 to France, 1923 scrapped, Toulon.
U.40	22.10.14	23.6.15 torpedoed and sunk off Aberdeen, R.N. submarine C.24.
U.41	10.10.14	24.9.15 sunk off Scillies, R.N. Q ship WYANDRA, ex-BARALONG.

Notes: Completed 1914/15, builders: Germaniawerft, Kiel. Considerable modifications to gun armament during war. All built as above but at varying times mounted 1 or 2—3·4 in., or 1—4·1 in. gun.

U.42

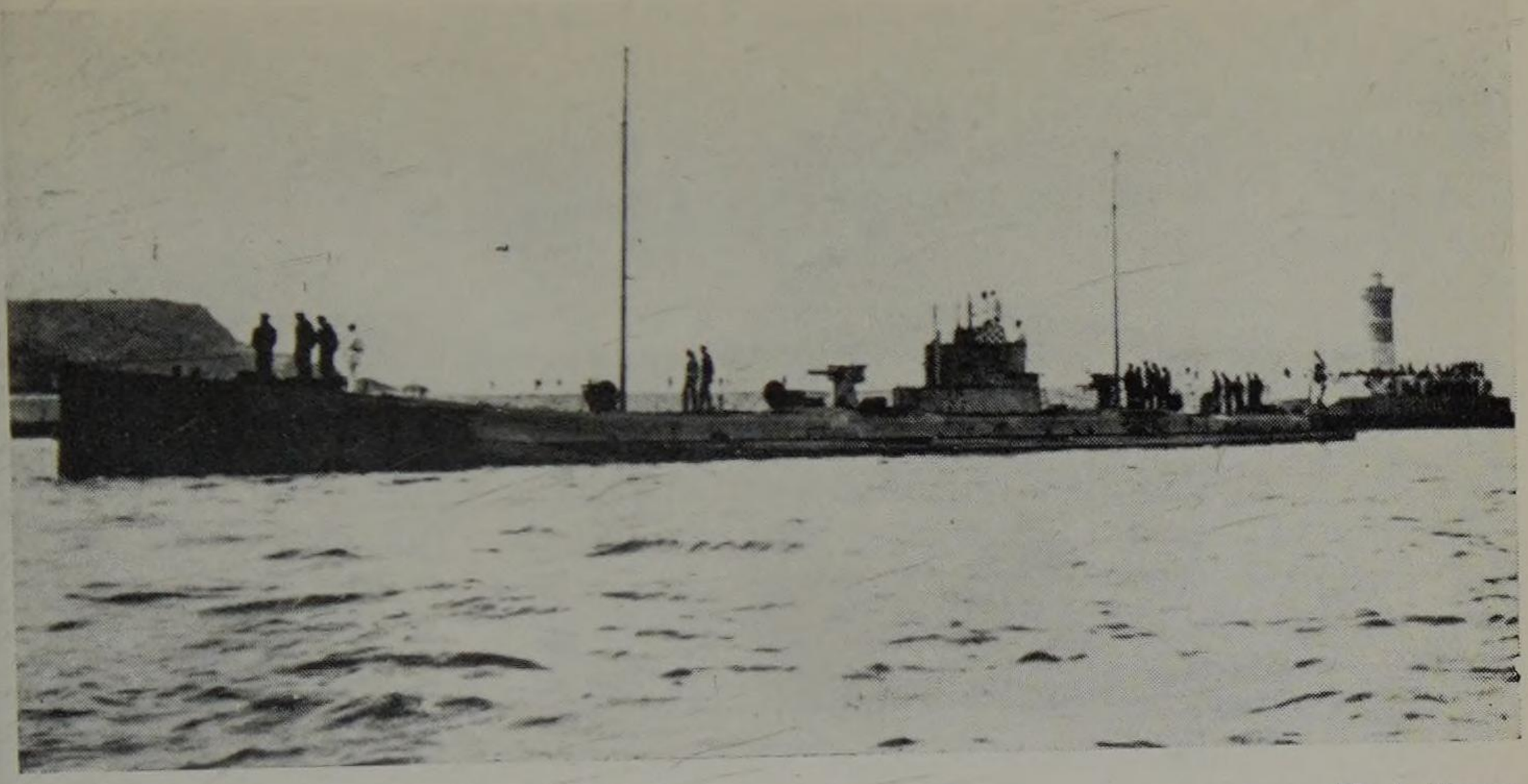
This number was never carried by a German submarine. It was allocated to a boat ordered in Italy, but which was retained by Italy as BALILLA and sunk 14.7.16 by Austrian torpedo boats.

U.43 class U.43-U.50

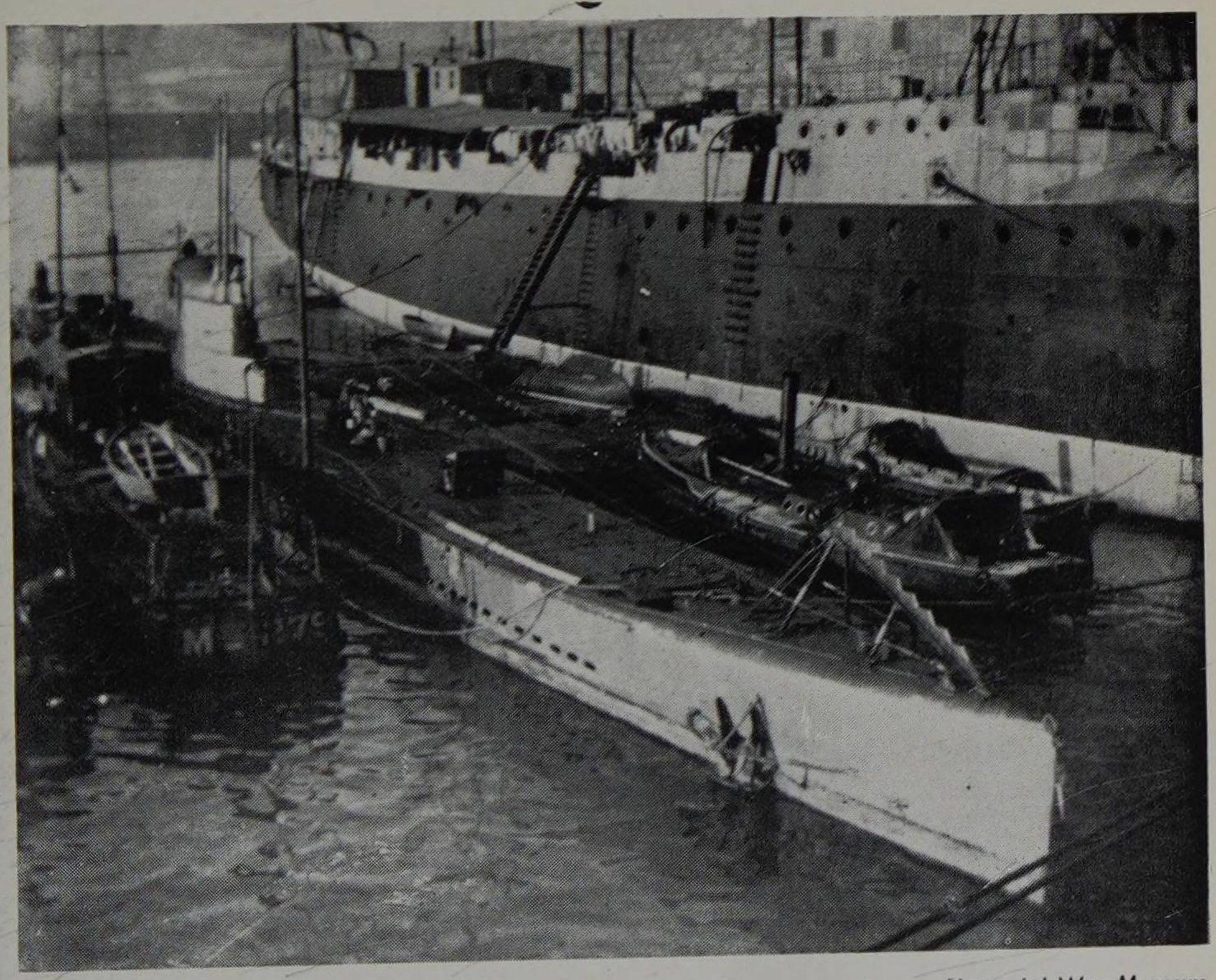
Displacement: 725/940 tons.
Dimensions: $213\frac{1}{4} \times 20\frac{1}{2} \times 11\frac{3}{4}$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 2,000/1,200 = 15·2/9·7 knots.
Armament: 4—20 in. (2 bow, 2 stern) T.T., 1—3·4 in. gun.
Complement: 35.

U.43	26. 9.14	20.1.19 surrendered, 1922 scrapped, Swansea.
U.44	15.10.14	12.8.17 rammed and sunk, North Sea, R.N. destroyer ORACLE.
U.45	15. 4.15	12.9.17 torpedoed and sunk off N. Ireland, R.N. submarine D.7.
U.46	18. 5.15	26.11.18 surrendered, to Japan as O.2, 1922 scrapped Kure.
U.47	16. 8.15	28.10.18 scuttled Pola, on evacuation.
U.48	3.10.15	24.11.17 stranded on Goodwins and scuttled.
U.49	26.11.15	11.9.17 sunk by ramming, and gunfire, Atlantic, S.S. BRITISH TRANSPORT.
U.50	31.12.15	9.17 mined and sunk, North Sea.

Notes: Completed 1915/16. Builders: Danzig D.Y. Gun armament modified during war as U.31 class. U.43, U.44 from 1916 minelayers.



U35 arriving at Carthagena, Spain, June 1916. [*P. A. Vicary*



U54 alongside HMS ARROGANT at Dover after surrender. [*Imperial War Museum*

U.51 class U.51.-U56

Displacement: 712/902 tons.
Dimensions: 214 × 21 × 11¾ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 2,400/1,200 = 17/9 knots.
Armament: 4—20 in. (2 bow, 2 stern) T.T., 2—3·4 in. (2 × 1) guns.
Complement: 35.

U.51	25.11.15	14.7.16 torpedoed and sunk, Ems Estuary, R.N. submarine H.5.
U.52	8.12.15	21.11.18 surrendered, 1922 scrapped, Swansea.
U.53	1. 2.16	1.12.18 surrendered, 1922 scrapped, Swansea.
U.54	25. 5.16	24.11.18 surrendered, to Italy, 1919 scrapped, Taranto.
U.55	8. 6.16	26.11.18 surrendered, to Japan as O.3, 1922 scrapped Sasebo.
U.56	23. 6.16	2.11.16 sunk, Arctic Ocean, by Russian ships.

Notes: Completed 1916, builders: Germaniawerft, Kiel. During war gun armament modified on individual boats at varying times to 2—3·4 in., 1—4·1 in., or 1—4·1 in. and 1—3·4 in. guns. U.52 29.10.17 sunk by torpedo explosion, Kiel D.Y., raised, repaired and re-commissioned.

U.57 class U.57-U.59

Displacement: 786/954 tons.
Dimensions: 219¾ × 20¾ × 12½ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 1,800/1,200 = 14·7/8·4 knots.
Armament: 4—20 in. (2 bow, 2 stern) T.T., 2—3·4 in. (2 × 1) guns.
Complement: 36.

U.57	29.4.16	24.11.18 surrendered, to France, 1921 scrapped Cherbourg.
U.58	31.5.16	17.11.17 sunk off Lundy Island, U.S. destroyers FANNING and NICHOLSON.
U.59	20.6.16	15.5.17 mined and sunk, North Sea.

Notes: Completed 1916, builders: A. G. Weser, Bremen. Gun modifications as U.51 class.

U.60 class U.60-U.62

Displacement: 768/956 tons.
Surface speed: 16·5 knots.
All other details as U.57 class.

U.60	5.7.16	21.11.18 surrendered, 1921 stranded en route to breakers.
U.61	22.7.16	26.3.18 sunk in St. George's Channel, R.N. patrol boat PC51.
U.62	2.8.16	21.11.18 surrendered, 1919/20 scrapped, Bo'ness.

Notes: Completed 1916, builders: A. G. Weser, Bremen. Gun modifications as U.51 class.

U.63 Class U.63-U.65

Displacement: 810/927 tons.
Dimensions: $224\frac{1}{4} \times 20\frac{1}{2} \times 12\frac{1}{2}$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 2,200/1,200 = 16·5/9 knots.
Armament: 4—20 in. (2 bow, 2 stern) T.T., 1—3·4 in. gun.
Complement: 36.

U.63	8.2.16	16.1.19 surrendered, 1919/20 scrapped, Blyth.
U.64	29.2.16	17.6.18 sunk, Mediterranean S. of Sardinia, R.N. sloop LYCHNIS and trawler PARTRIDGE II.
U.65	21.3.16	28.10.18 scuttled, Pola, on evacuation.

Notes: Completed 1916, builders, Germaniawerft, Kiel. Gun modifications 1916 2—3·4 in. (2 × 1), 1917 1—4·1 in.

U.66 class U.66-U.70

Displacement: 791/933 tons.
Dimensions: 228 × $20\frac{1}{2}$ × $12\frac{1}{2}$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 2,300/1,200 = 16·8/10·3 knots.
Armament: 5—20 in. (4 bow, 1 stern) T.T., 1—3·4 in. guns.
Complement: 36.

U.66	22.4.15	2.10.17 sunk, North Sea.
U.67	15.5.15	20.11.18 surrendered, 1921 scrapped, Fareham.
U.68	1.6.15	22.3.16 sunk W. of Dunmore Head, R.N. Q ship FARNBOROUGH.
U.69	24.6.15	12.7.17 sunk, North Sea, R.N. destroyer PATRIOT.
U.70	20.7.15	20.11.18 surrendered, 1919/20 scrapped, Bo'ness.

Notes: Completed 1915, builders: Germaniawerft, Kiel. Building for Austro-Hungarian Navy as U.8-U.12, but taken over. U.66 some accounts give loss by mine, others by gunfire of R.N. destroyer. 1917 1—4·1 in. gun substituted.

U.71 class U.71-U.72 (Class UE-I Ocean Minelayers)

Displacement: 755/832 tons.
Dimensions: $186\frac{1}{4} \times 19\frac{1}{4} \times 15\frac{3}{4}$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 800/900 = 10·6/7·9 knots.

Armament: 2—20 in. (side, on deck) T.T., 1—3·4 in. gun, 2 mine tubes, 38 mines.
Complement: 32.

U.71	31.10.15	20.11.18 surrendered, to France, 1921 scrapped, Cherbourg.
U.72	31.10.15	1.11.18 scuttled, Cattaro, on evacuation.

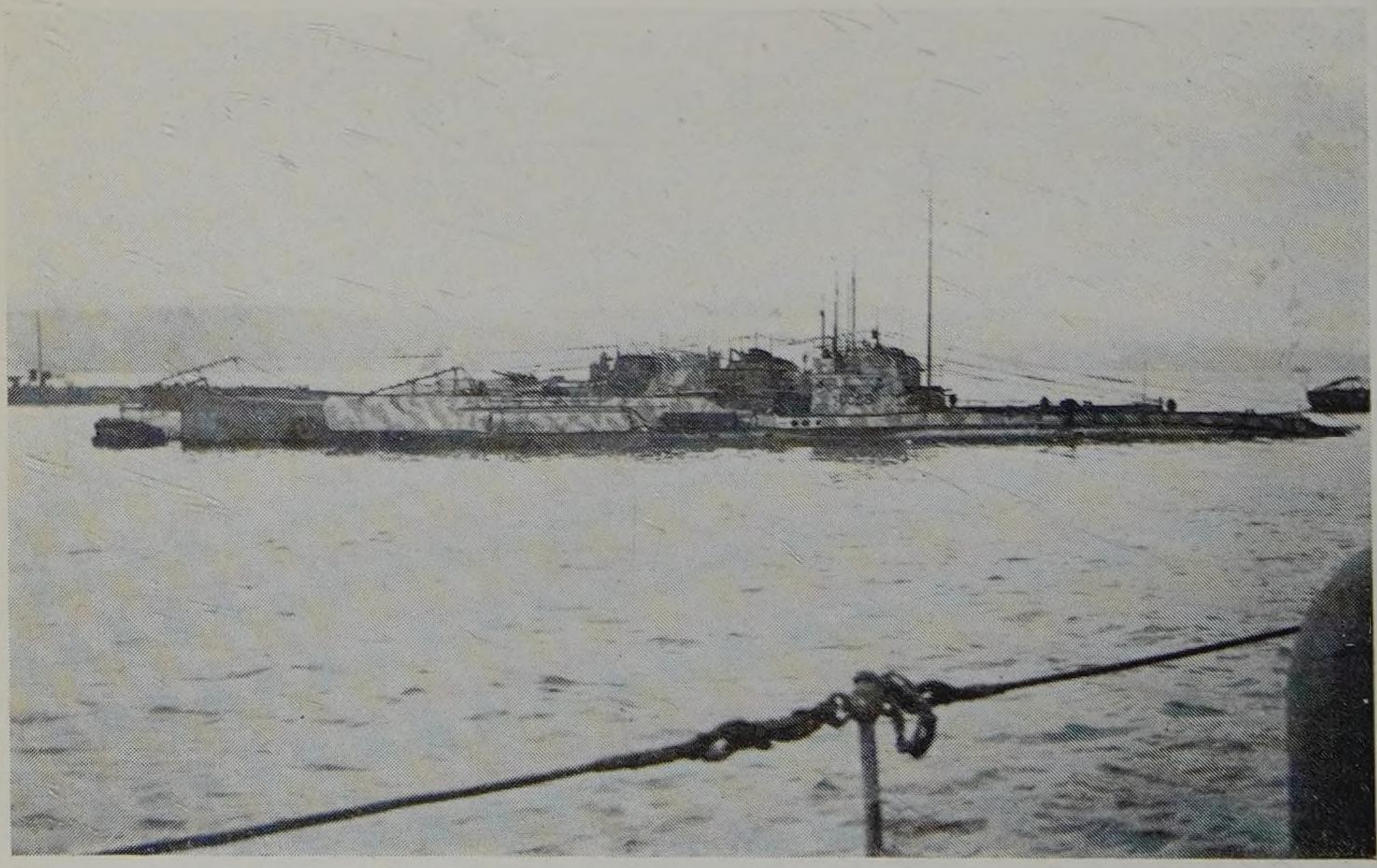
Notes: Completed 1915 and 1916, builders: A. G. Vulcan, Stettin. 1916/17 1—4·1 in. gun substituted. 1917 U.72 1—4·1 in., 1—3·4 in. guns.

U.73 class U.73-U.74

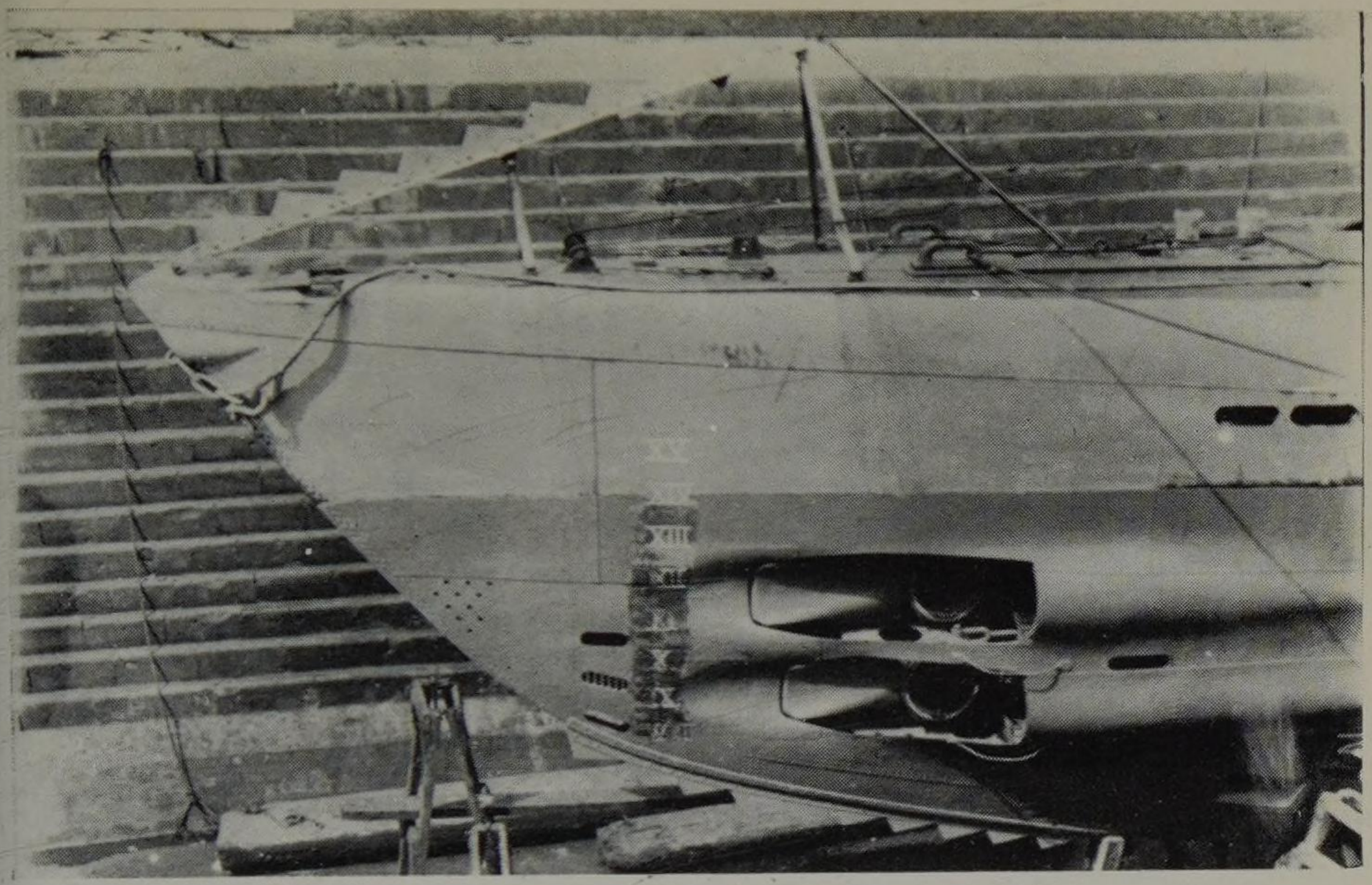
Displacement: 745/829 tons.
Machinery: 2-shaft diesel/electric motors, B.H.P. 800/800 = 9·6/7·9 knots.
All other details as U.71 class.

U.73	16.6.15	30.10.18 scuttled, Pola, on evacuation.
U.74	10.8.15	27.5.16 sunk, North Sea, R.N. trawlers SEARANGER OKU, RODINO and KIMBERLEY.

Notes: Completed 1915, builders, Danzig D.Y. 1916/17 1—4·1 in. gun substituted.

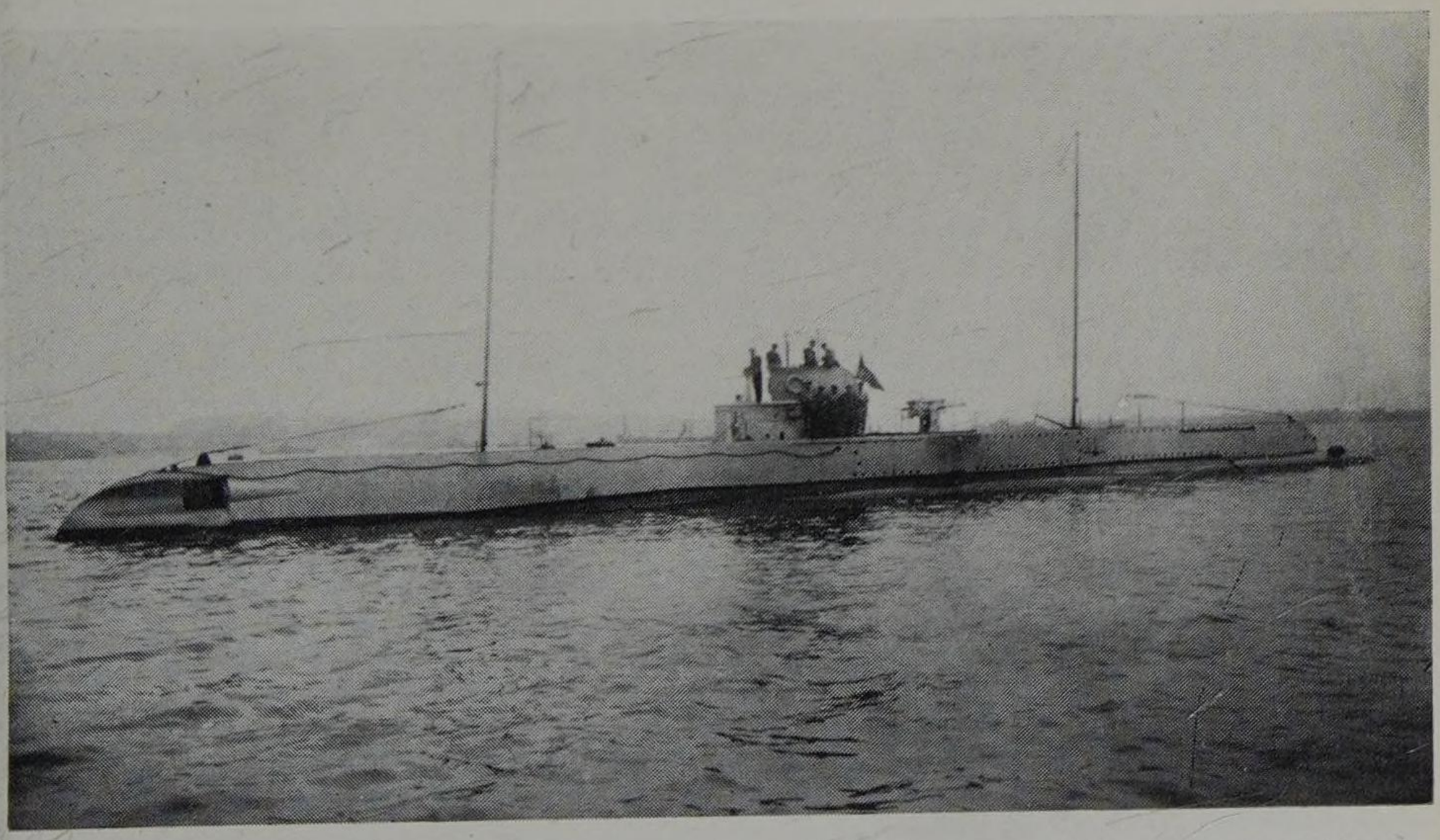


U58 and other submarines at Harwich. Note camouflage on U58. [*Imperial War Museum*



U62 in dry dock, giving a good view of bow torpedo tubes and net cutters.

[*Imperial War Museum*



U80 at sea. Note minelaying tubes aft.

[*National Maritime Museum*

U.75 class U.75-U.80

Displacement: 755/832 tons.
Machinery: 2-shaft diesel/electric motors—U.75-U.76 B.H.P. 900/900 = 9·9/7·9 knots, U.77-U.80 B.H.P. 900/800 = 9·9/7·8 knots. All other details as U.71 class

U.75	30.1.16	14.12.17 mined and sunk, North Sea.
U.76	12.3.16	27.1.17 sunk Arctic Ocean, rammed by Russian trawler.
U.77	9.1.16	7.7.16 lost, North Sea.
U.78	27.2.16	28.10.18 'torpedoed, and sunk North Sea R.N. submarine G.2.
U.79	9.4.16	21.11.18 surrendered, to France as VICTOR REVEILLE, 1933 scrapped.
U.80	22.4.16	16.1.19 surrendered, 1922 scrapped, Swansea.

Notes: Completed 1916, builders: A. G. Vulcan, Stettin. 1916/17 1—4·1 in. gun substituted. U.77 German accounts give loss as ramming by trawler.

U.81 class U.81-U.86

Displacement: 808/946 tons.
Dimensions: 230 × 20½ × 13 ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 2,400/1,200 = 16·8/9·1 knots.
Armament: 6—20 in. (4 bow, 2 stern) T.T., U.81-U.83 1—4·1 in. gun, U.84-U.86 2—3·4 in. (2 × 1) guns.
Complement: 35.

U.81	24. 6.16	1.5.17 torpedoed and sunk off W. Ireland, R.N. submarine E.54.
U.82	1. 7.16	16.1.19 surrendered, 1919/20 scrapped, Blyth.
U.83	13. 7.16	17.2.17 sunk off S.W. Ireland, R.N. Q ship FARNBOROUGH.
U.84	22. 7.16	26.1.18 rammed and sunk, Irish Sea, R.N. patrol boat PC62.
U.85	22. 8.16	12.3.17 sunk English Channel, R.N. Q ship PRIVET.
U.86	7.11.16	20.11.18 surrendered, 1921 sank en route to breakers.

Notes: Completed 1916, builders: Germaniawerft, Kiel. 1917 U.84-U.86 1—4·1 in., 1—3·4 in. guns.

U.87 class U.87-U.92

Displacement: 757/998 tons.
Dimensions: 215¾ × 20½ × 12¾ ft.

Machinery: 2-shaft diesel/electric motors, B.H.P. 2,400/1,200 = 15·6/8·6 knots.
Armament: 4—20 in. (2 bow, 2 stern) T.T., U.87-U.89 1—4·1 in., 1—3·4 in. guns, U.90-U.92 1—4·1 in. gun.
Complement: 36.

U.87	22 5.16.	25.12.17 sunk Irish Sea, R.N. Q ship BUTTERCUP and patrol boat PC56.
U.88	22. 6.16	7.4.17 sunk, Bay of Biscay, R.N. Q ship STONECROP.
U.89	6.10.16	12.2.18 rammed and sunk off N. Ireland, R.N. cruiser ROXBURGH.
U.90	12. 1.17	20.11.18 surrendered, 1919/20 scrapped, Bo'ness.
U.91	14. 4.17	26.11.18 surrendered, to France, 1921 scrapped, Brest.
U.92	12. 5.17	9.9.18 missing, mined? North Sea.

Notes: Completed 1917, builders: Danzig D.Y.

U.93 class U.93-U.95

Displacement: 838/1,000 tons.
Dimensions: $235\frac{1}{2} \times 20\frac{3}{4} \times 12\frac{3}{4}$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 2,400/1,200 = 16·8/8·6 knots.
Armament: 6—20 in. (4 bow, 2 stern) T.T., 1—3·4 in. gun.
Complement: 36.

U.93	15.12.16	7.1.18 sunk in collision, English Channel, S.S. BRAENEIL.
U.94	5. 1.17	20.11.18 surrendered, 1919/20 scrapped, Blyth.
U.95	20. 1.17	1.18 missing, English Channel.

Notes: Completed 1917, builders: Germaniawerft, Kiel.

U.96 class U.96-U.98

Displacement: 837/998 tons.
Machinery: 2-shaft diesel/electric motors, B.H.P. 2,300/1,200 = 16·9/8·6 knots.
All other details as U.93 class but 1—4·1 in. gun.

U.96	15.2.17	20.11.18 surrendered, 1919/20 scrapped, Bo'ness
U.97	4.4.17	21.11.18 sank, North Sea, en route to surrender.
U.98	28.2.17	16.1.19 surrendered, 1919/20 scrapped, Blyth.

Notes: Completed 1917, builders: Germaniawerft, Kiel.

U.99 class U.99-U.104

Displacement: 750/952 tons.
Dimensions: $221\frac{3}{4} \times 20\frac{1}{4} \times 11\frac{3}{4}$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 2,400/1,200 = 16·5/8·8 knots.
Armament: 4—20 in. (2 bow, 2 stern) T.T., 2—3·4 in. guns, except U.100 1—4·1 in.
Complement: 36.

U.99	27.1.17	7.7.17 torpedoed and sunk, North Sea, R.N. submarine J.13.
U.100	25.2.17	21.11.18 surrendered, 1922 scrapped, Swansea.
U.101	1.4.17	21.11.18 surrendered, 1919 scrapped, Morecambe.
U.102	12.5.17	2.9.18 missing, mined? North Sea.
U.103	9.6.17	12.5.18 rammed and sunk, English Channel, S.S. OLYMPIC.
U.104	3.7.17	25.4.18 sunk, Atlantic off S. Ireland, R.N. sloop JESSAMINE.

Notes: Completed 1917, builders, A. G. Weser, Bremen. Considered to be the best all round type of German submarine. U.99 some accounts give loss as ramming by S.S. VALERIA in Atlantic on 20.6.17.

U.105 class U.105-U.110

Displacement: 798/1,000 tons.
Dimensions: $235\frac{1}{2} \times 20\frac{3}{4} \times 12\frac{3}{4}$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 2,400/1,200 = 16·4/8·4 knots.
Armament: 6—20 in. (4 bow, 2 stern) T.T., 1—4·1 in., 1—3·4 in. guns.
Complement: 36.

U.105	16. 5.17	20.11.18 surrendered, to France as JEAN AUTRIC, 1937 scrapped.
U.106	12. 6.17	8.10.17 mined and sunk, North Sea.
U.107	28. 6.17	20.11.18 surrendered, 1922 scrapped, Swansea.
U.108	11.10.17	20.11.18 surrendered, to France as LEON MIGNOT, 1935 scrapped.
U.109	25. 9.17	26.1.18 sunk, English Channel, R.N. drifter BERYL III.
U.110	28. 7.17	15.3.18 sunk, Atlantic, R.N. destroyers MORESBY and MICHAEL.

Notes: Completed 1917, builders: Germaniawerft, Kiel.

U.111 class U.111-U.114

Displacement: 798/996 tons.
Machinery: 2-shaft diesel/electric motors, B.H.P. 2,300/1,200 = 16·4/8·4 knots.

All other details as U.105 class.

U.111	5. 9.17	20.11.18 surrendered, to U.S.N., expended in experiments.
U.112	26.10.17	22.11.18 surrendered, 1922 scrapped, Rochester.
U.113	29. 9.17	20.11.18 surrendered, to France, 1921 scrapped, Brest.
U.114	27.11.17	26.11.18 surrendered, to Italy, 1919 scrapped, La Spezia.

Notes: Completed 1917/18, builders: Germaniawerft, Kiel, but hulls by Bremer Vulcan, Vegesack.

U.115 class U.115-U.116

Displacement: 882/1,233 tons.
Dimensions: $237\frac{1}{4} \times 20\frac{3}{4} \times 12\frac{3}{4}$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 2,400/1,200 = 16/9 knots.
Armament: 6—20 in. (4 bow, 2 stern) T.T., 1—4·1 in., 1—3·4 in. guns.
Complement: 36.

U.115	18	Broken up before completion.
U.116	18	,, ,,

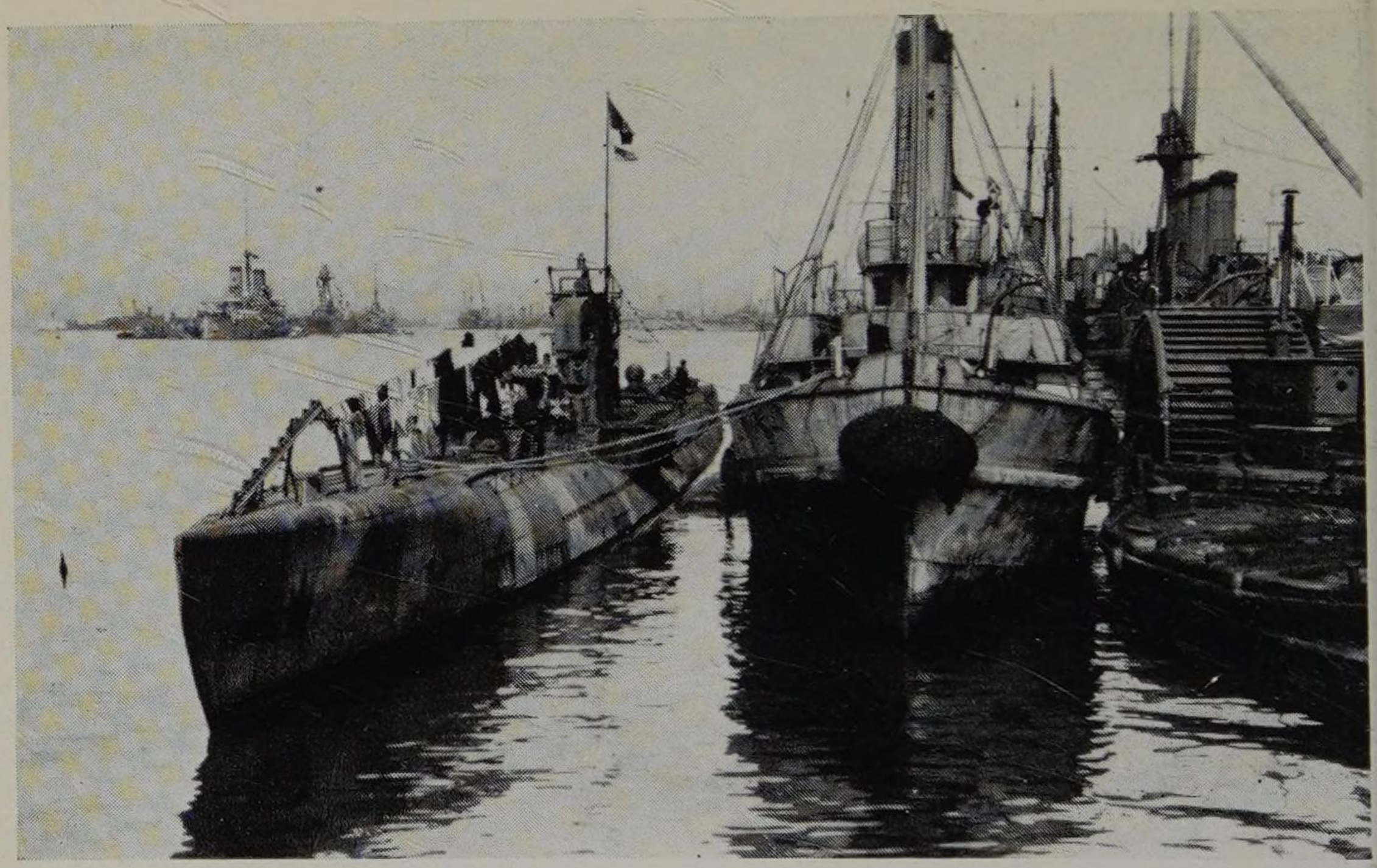
Notes: Builders: Schichau, Danzig.

U.117 class U.117-U.121
(Class UE-II Ocean Minelayers)

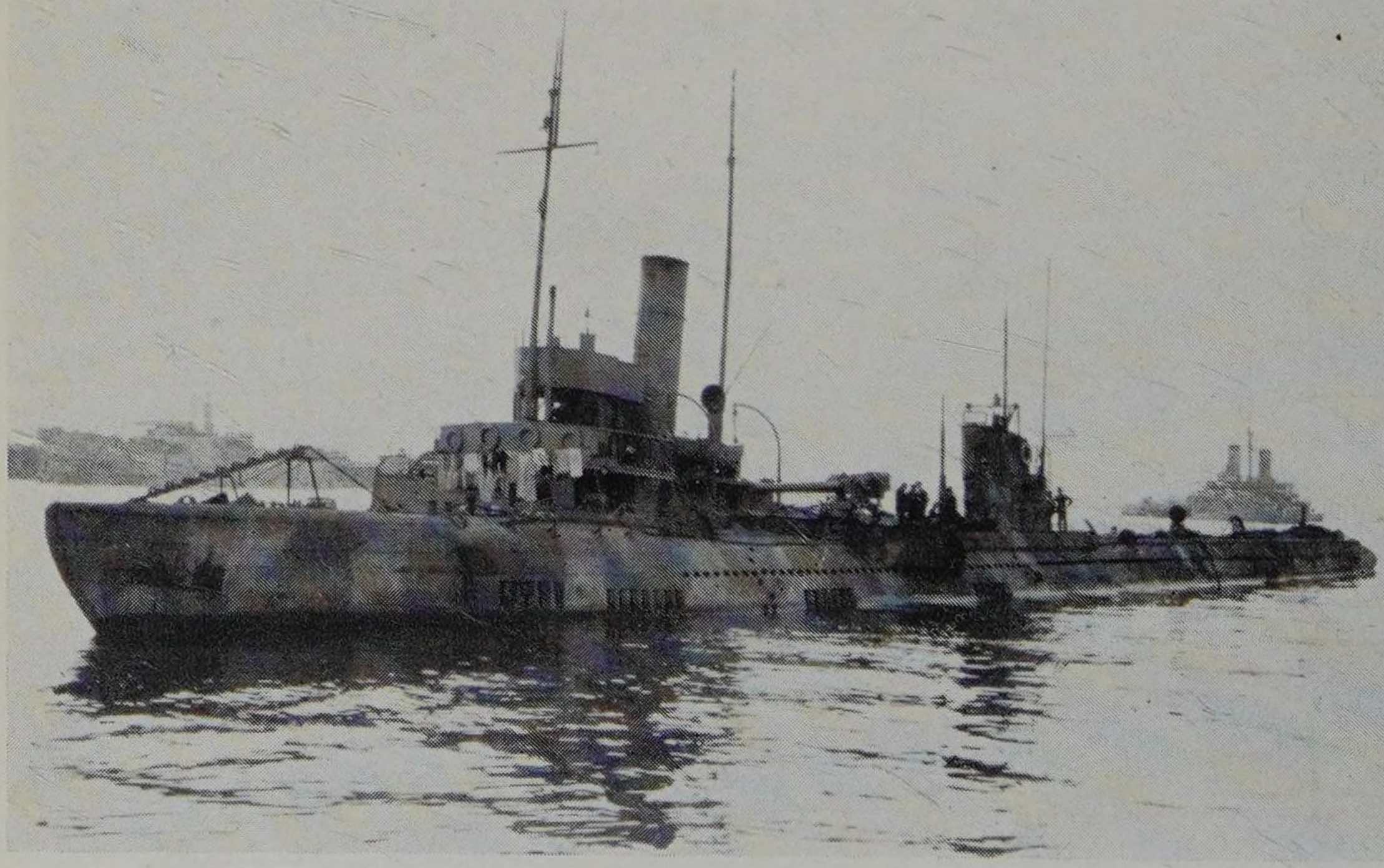
Displacement: 1,164/1,512 tons.
Dimensions: $267\frac{1}{2} \times 24\frac{1}{2} \times 13\frac{3}{4}$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 2,400/1,200 = 14·7/7 knots.
Armament: 4—20 in. (bow) T.T., 2 mine tubes, 42 mines. 1—5·9 in. gun, excepting U.117 1—5·9 in., 1—3·4 in. guns.
Complement: 40.

U.117	10.12.17	21.11.18 surrendered, to U.S.N., 22.6.21 sunk by aerial bombing off Cape Charles, Virginia.
U.118	23. 2.18	23.2.19 surrendered, to France, 1921 scrapped, Brest.
U.119	4. 4.18	24.11.18 surrendered, to France as RENE AUDRY, scrapped 1937.
U.120	20. 6.18	22.11.18 surrendered, to Italy, 1919 scrapped La Spezia.
U.121	20. 9.18	9.3.19 surrendered, to France, 17.21 sunk as target off Cherbourg.

Notes: Completed 1918, builders: A. G. Vulcan, Hamburg. Long distance minelayers, capable of laying mines off U.S. coast.



U120 at Gibraltar, flying the Italian flag. [P. A. Vicary



Another photograph of U120 at Gibraltar. [P. A. Vicary

U.122 class U.122-U.126

Displacement: 1,163/1,468 tons.
Dimensions: 269 × 24½ × 13¾ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 2,400/1,235 = 14·7/7·2 knots.
Armament: 4—20 in., (bow) T.T., 2 mine tubes, 42 mines. 1—5·9 in. gun excepting U.123 2—4·1 in. (2 × 1) guns.
Complement: 40.

U.122	9.12.17	26.11.18 surrendered, 1921 stranded, East Coast en route to breakers.
U.123	26. 1.18	22.11.18 surrendered, 1921 stranded, East Coast en route to breakers.
U.124	28. 3.18	13.11.18 interned Karlskrona, 1.12.18 surrendered, 1922 scrapped, Swansea.
U.125	26. 5.18	26.11.18 surrendered, to Japan as 0.1, 1922 scrapped Kure.
U.126	16. 6.18	22.11.18 surrendered, 1923 scrapped, Upnor.

Notes: Completed 1918, builders: Blohm & Voss, Hamburg.

U.127 class U.127-U.130

Displacement: 1,221/1,649 tons.
Dimensions: 269 × 24¾ × 13¾ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 3,300/1,690 = 17/8·1 knots.
Armament: 6—20 in. (4 bow, 2 stern) T.T., 2—5·9 in. (2 × 1) guns.
Complement: 40.

U.127 U.128 U.129 U.130	All launched 1918 but broken up before completion.

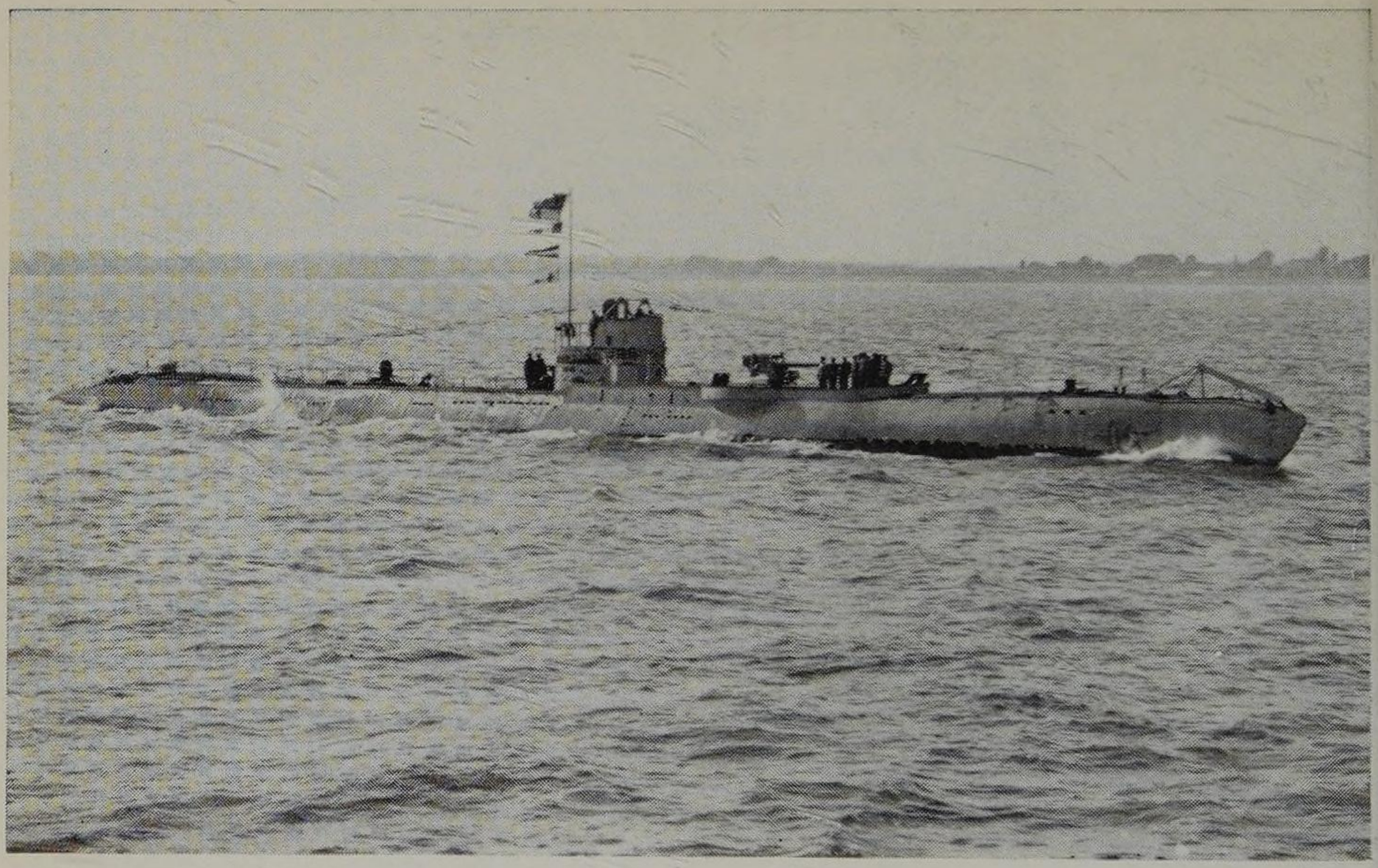
Notes: Builders: Germaniawerft, Kiel.

U.131 class U.131-U.134

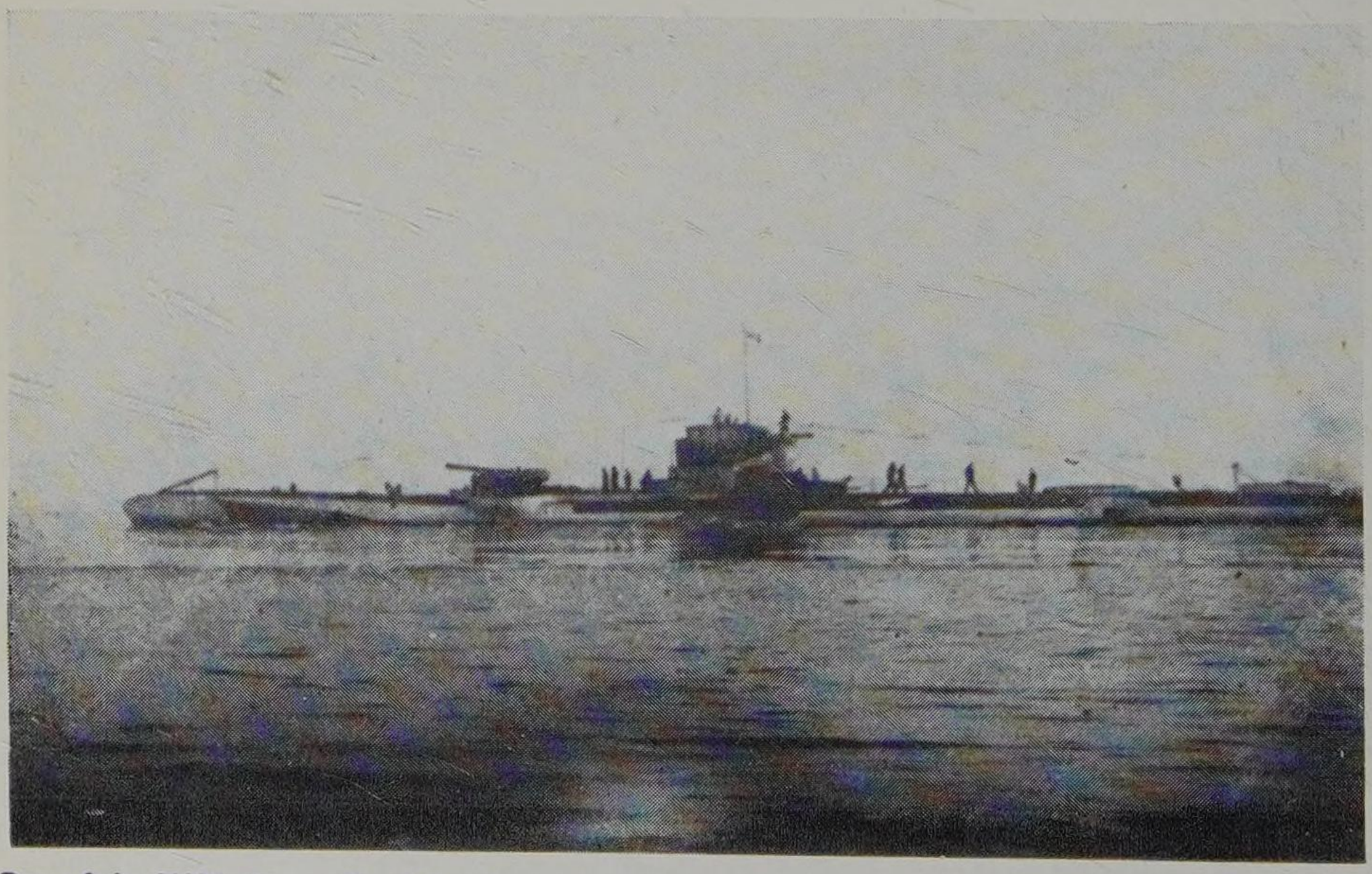
Displacement: 1,160/1,527 tons.
Machinery: 2-shaft diesel/electric motors, B.H.P. 3,400/1,690 = 17/8·1 knots.
All other details as U.127 class.

U.131 U.132 U.133 U.134	All launched 1918 but broken up 1919/20 before completion.

Notes: Builders: A. G. Weser, Bremen.



U126 under the White Ensign. [*Imperial War Museum*



One of the U135 class. The 5.9 inch gun is very evident. [*Imperial War Museum*

U.135 class U.135-U.138

Displacement: 1,175/1,534 tons.
Dimensions: 274 × 24¾ × 13¾ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 3,500/1,690 = 17/8·1 knots.
Armament: 6—20 in. (4 bow, 2 stern) T.T., 1—5·9 in. gun.
Complement: 46.

U.135	8. 9.17	20.11.18 surrendered, 1921 sank off East Coast, en route to breakers.
U.136	7.11.17	23.2.19 surrendered, to France, 1921 scrapped, Cherbourg.
U.137	8. 1.18	1919 broken up before completion
U.138	26. 3.18	,, ,, ,,

Notes: Completed 1917/18, builders: Danzig D.Y.

U.139 class U.139-U.141

Displacement: 1,930/2,483 tons.
Dimensions: 311 × 29¾ × 17¼ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 3,500 (U.139 3,300)/1,780 = 15·8/7·6 knots, plus diesel B.H.P. 450 battery charging set.
Armament: 6—20 in. (4 bow, 2 stern) T.T., 2—5·9 in. (2 × 1) guns, U.140-U.141 2—5·9 in. (2 × 1), 2—3·4 in. (2 × 1) guns.
Complement: 62.

U.139	3.12.17	24.11.18 surrendered, to France as HALBRONN 1935 scrapped.
U.140	4.11.17	23.2.19 surrendered, to U.S.N., 22.7.21 sunk as gunnery target off Cape Charles, Virginia, U.S. destroyer DICKERSON.
U.141	9. 1.18	26.11.18 surrendered, 1923 scrapped, Upnor.

Notes: Completed 1918, builders: Germaniawerft, Kiel. Some of few submarines given names:—
U.139—KAPITÄNLEUTNANT SCHWEIGER,
U.140—KAPITÄNLEUTNANT WEDDIGEN.

U.142 class U.142-U.144

Displacement: 2,158/2,785 tons.
Dimensions: 320 × 29¾ × 17¼ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 3,500/1,780 = 15·8/7·6 knots.
Armament: 6—20 in. (4 bow, 2 stern) T.T., 2—5·9 in. (2 × 1), 2—3·4 in. (2 × 1) guns.
Complement: 62.

U.142	4.3.18	1919 scrapped, Oslebshausen.
U.143	20.4.18	Broken up before completion.
U.144	25.8.18	Broken up before completion.

Notes: Builders: Germaniawerft, Kiel. U.142 completed 10.11.18, not commissioned, disarmed immediately.

U.145 class U.145-U.147

Displacement: 2,173/2,789 tons.
All other details as U.142 class.

U.145 U.146 U.147	All launched 1918 but broken up before completion.

Notes: Builders: A. G. Vulcan, Hamburg.
Names as follows:—
U.145—KAPITÄNLEUTNANT WEGENER,
U.146—OBERLEUTNANT z.S SALTZWEDEL,
U.147—KAPITÄNLEUTNANT HANSEN.

U.148 class U.148-U.150

Displacement: 2,153/2,766 tons.
All other details as U.142 class.

U.148	22.6.18	
U.149	28.9.18	All broken up before completion.
U.150	18	

Notes: Builders: A. G. Weser, Bremen.
Names as follows:—
U.148—OBERLEUTNANT z.S PUSTKUCHEN,
U.149—KAPITÄNLEUTRANT FREIHERR VON BERKHEIM,
U.150—KAPITÄNLEUTNANT SCHNEIDER.

U.151 class U.151-U.157

Displacement: 1,512/1,875 tons.
Dimensions: $213\frac{1}{4} \times 29\frac{1}{4} \times 18\frac{1}{2}$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 800/800 = 12·4/5·2 knots.
Armament: 2—20 in. (bow) T.T., 2—5·9 in. (2 × 1), 2—3·4 in. (2 × 1) guns.
Complement: 56.

U.151	4.4.17	24.11.18 surrendered, to France, 7.6.21 sunk as target off Cherbourg.
U.152	20.5.17	24.11.18 surrendered, 1921 sank en route to breakers.
U.153	19.7.17	24.11.18 surrendered, 1921 sank en route to breakers.

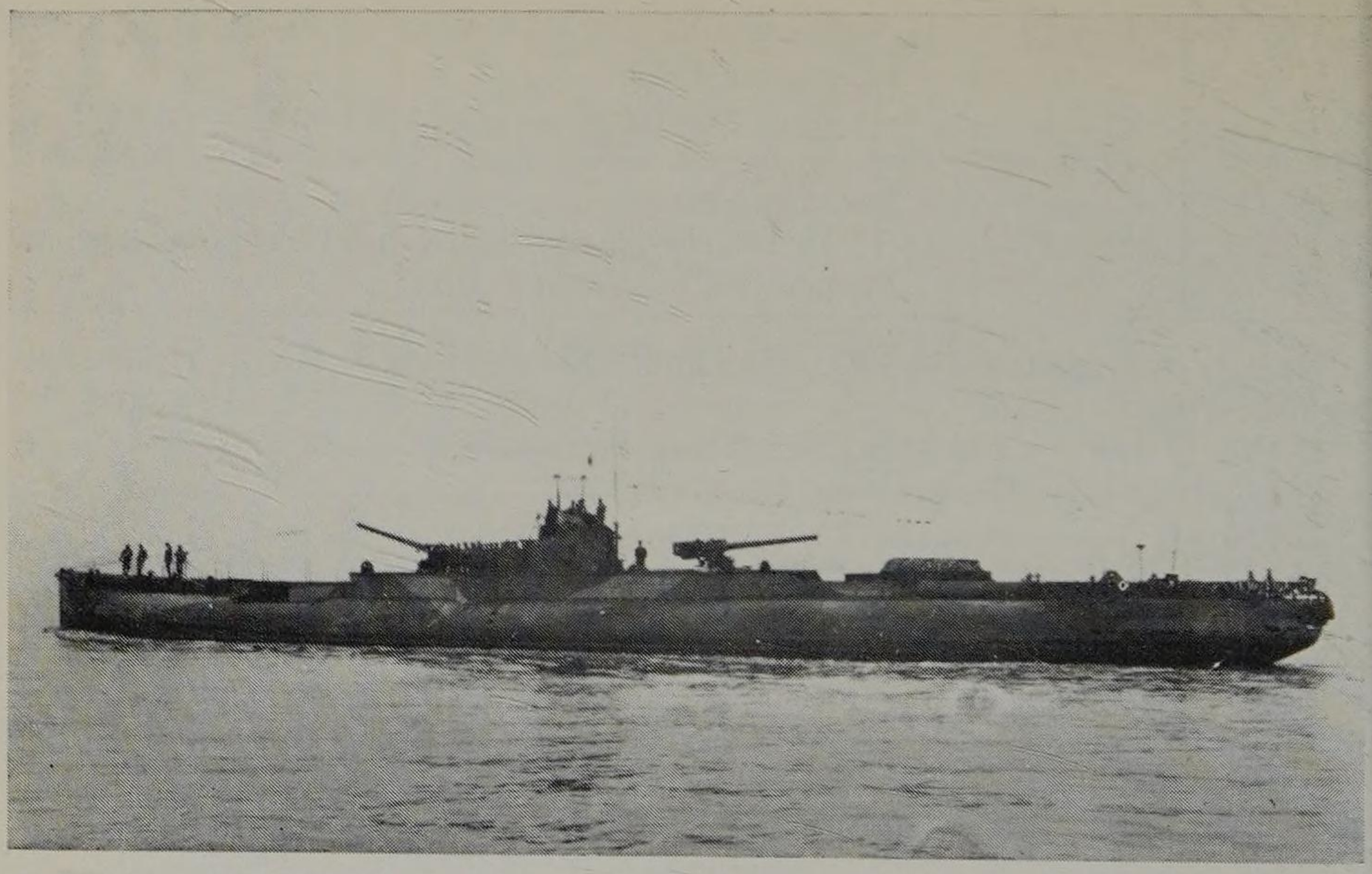
U.154	10.9.17	11.5.18 torpedoed and sunk off C. St. Vincent, R.N. submarine E.35.
U.155	28.3.16	24.11.18 surrendered, 1922 scrapped, Morecambe.
U.156	17.4.17	15.6.18 mined and sunk, North Sea, Northern Barrage.
U.157	23.5.17	11.11.18 interned Trondheim, 8.2.19 surrendered, to France, 1921 scrapped, Brest.

Notes: Completed 1916/17 . Builders: Germaniawerft, Kiel. Hulls built by following:—

U.151, U.155	Flensburg Schiffbau, Flensburg,
U.152-U.154	Reiherstieg, Hamburg,
U.156	Atlaswerke, Bremen.
U.157	Stülcken Sohn, Hamburg.

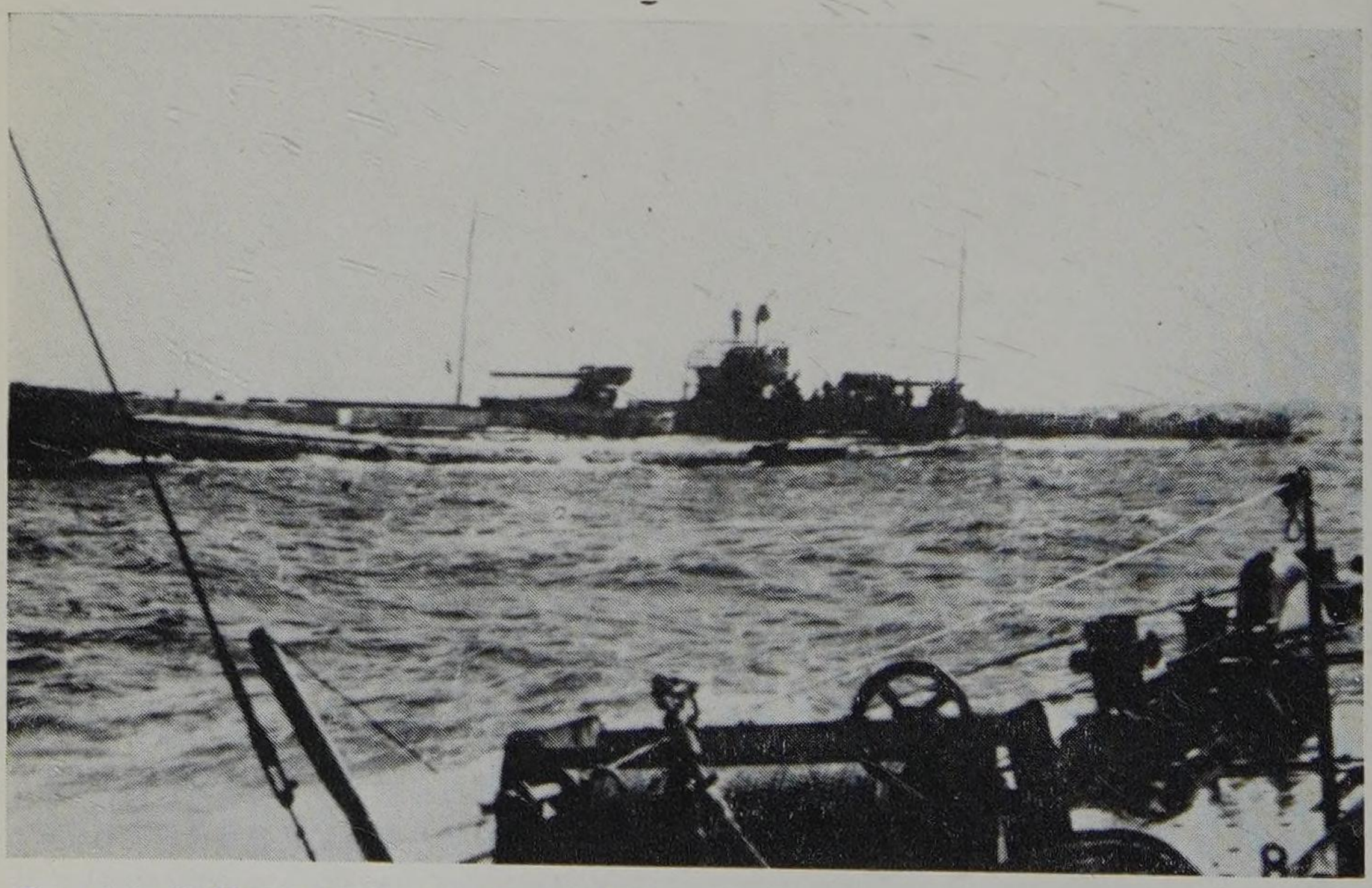
U.155 completed as merchant submarine DEUTSCHLAND (unarmed) made two mercantile trips to U.S.A. prior to 1917. 10.2.17 converted to naval use. U.151 completed as mercantile submarine OLDENBURG, converted to naval use. BREMEN merchant submarine of same class lost on first voyage 1917, off Orkneys, mined? DEUTSCHLAND as merchant—Displacement 1,575/1,860 tons, B.H.P. 800/750 = 10/6·7 knots.

U155 alongside the RN Q ship SUFFOLK COAST, St Katherine's Dock, London, on December 4, 1918. [*Imperial War Museum*



A U-cruiser of the U151 class. Note the two 5.9inch guns and high freeboard, also camouflage painting.

[*Imperial War Museum*



One of the U151 class of U-cruisers at sea 1918.

[*P. A. Vicary*

Surrendered submarines at Harwich, 1918 [Imperial War Museum

U.158 class U.158-U.159

Displacement: 811/1,034 tons.
Dimensions: $234\frac{1}{2} \times 20\frac{1}{2} \times 13\frac{1}{2}$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 2,400/1,200 = 16/9 knots.
Armament: 6—20 in. (4 bow, 2 stern) T.T., 1—4·1 in. gun.
Complement: 39.

U.158	16.4.18	1919 broken up before completion.
U.159	25.5.18	,, ,, ,,

Notes: Builders: Germaniawerft, Kiel.

U.160 class U.160-U.172

Displacement: 821/1,000 tons.
Dimensions: $235\frac{1}{2} \times 20\frac{1}{2} \times 13\frac{1}{2}$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 2,400/1,200 = 16·2/8·2 knots.
Armament: 6—20 in. (4 bow, 2 stern) T.T., U.160, 2—4·1 in. (2 × 1) guns, U.161—U.172 1—4·1 in. gun.
Complement: 39.

U.160	27. 2.18	24.11.18 surrendered, to France, 1922 scrapped, Cherbourg.
U.161	23. 3.18	20.11.18 surrendered, 1921 stranded en route to breakers.
U.162	20. 4.18	20.11.18 surrendered, to France as PIERRE MARRAST, 1937 scrapped.
U.163	1. 6.18	22.11.18 surrendered, to Italy, 1919 scrapped, La Spezia.
U.164	7. 8.18	22.11.18 surrendered, 1922 scrapped, Swansea.
U.165	21. 8.18	18.11.18 sunk by accident, Weser, raised, scrapped.
U.166	6. 9.18	Completed after Armistice, 21.3.19 surrendered, to France as JEAN ROULIER, 1935 scrapped.
U.167	28. 9.18	18.4.19 surrendered, 1921 scrapped, Grays.
U.168	19.10.18	1919 scrapped before completion.
U.169	18	,, ,, ,,
U.170	18	,, ,, ,,
U.171	18	,, ,, ,,
U.172	18	,, ,, ,,

Notes: Completed 1918, builders, Bremer Vulcan, Vegesack.

U.173 class U.173-U.176

Displacement: 2,115/2,790 tons.
Dimensions: $320 \times 29\frac{3}{4} \times 18\frac{1}{2}$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 6,000/2,600 = 17·5/8·5 knots.

Armament: 6—20 in. (4 bow, 2 stern) T.T., 2—5·9 (2 × 1), 2—3·4 in. (2× 1) guns.

U.173	18	1920 scrapped before completion.
U.174	18	,, ,, ,,
U.175	—	1920 scrapped on stocks
U.176	—	,, ,,

Notes: Builders: Germaniawerft, Kiel.

U.177 class U.177-U.200

Some started, but all cancelled. Some components used in merchant ships. All details as U.173 class.

U.177	A. G. Vulcan, Hamburg.
U.178	A. G. Vulcan, Hamburg.

All details as U.173 but 2—5·9 in (2 × 1) guns only.

U.179	A. G. Weser, Bremen.
U.180	,,
U.181	Blohm & Voss, Hamburg.
U.182	,,
U.183 to U.190	Germaniawerft, Kiel
U.191 to U.194	Blohm & Voss, Hamburg.

All details as U.179 class, but projected only. 1919 Cancelled.

U.195 to U.200	A. G. Weser, Bremen.

U.201 class U.201-U.212

Speed: 16/9 knots.
All other details as U.160 class.

U.201 to U.209	1919 broken up on stocks
U.210 to U.212	Cancelled

Bremer Vulcan, Vegesack.

U.213 class U.213-U.218

Displacement: 1,335/1,830 tons.
Dimensions: $288\frac{3}{4} \times 26 \times 15\frac{3}{4}$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 3,500/1,690 = 18/9 knots.
Armament: 6—20 in. (4 bow, 2 stern) T.T., 1—5·9 in. gun.

U.213	Projected, 1918 cancelled.
to	
U.218	Danzig D.Y.

U.219 class U.219-U.228

Displacement: 1,400/1,900 tons.
Dimensions: $287\frac{1}{2} \times 26 \times 15\frac{3}{4}$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 3,500/1,690 = 18/9 knots.
Armament: 8—20 in. (4 bow, 4 stern) T.T., 1—5·9 in. gun.

U.219	Projected, 1918 cancelled.
to	A. G. Weser, Bremen.
U.224	
U.225	Projected, 1918 cancelled.
to	Blohm & Voss, Hamburg.
U.228	

U.229 class U.229-U.246

Displacement: 809/1,192 tons.
Dimensions: 242 × 22 × 14 ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 2,900/1,230 = 16·5/9 knots.
Armament: 6—20 in (4 bow, 2 stern) T.T., 1—4·1 in. gun.

U.229	Projected, 1918 cancelled.
to	Germaniawerft, Kiel.
U.246	

U.247 class U.247-U.262

Displacement: 940/1,205 tons.
All other details as U.229 class.

U.247	Projected, 1918 cancelled.
to	Bremer Vulcan, Vegesack.
U.262	

U. 263 class U.263-U.276

Displacement: 882/1,233 tons.
All other details as U.229 class.

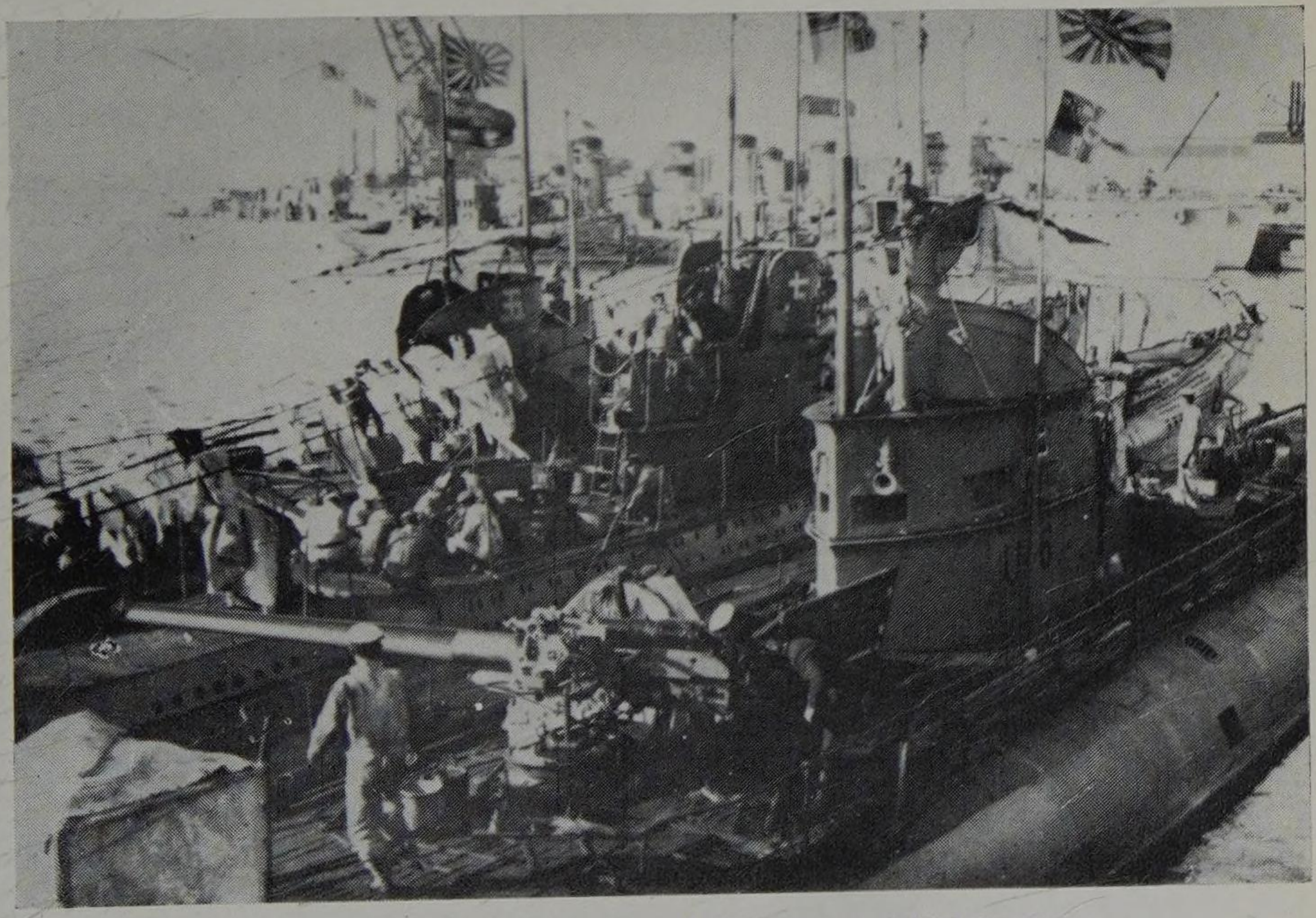
U.263 to U.276	Projected, 1918 cancelled. Schichau, Danzig.

U.A. ex-Norwegian

Displacement: 270/342 tons.
Dimensions: $153\frac{1}{4} \times 13\frac{1}{4} \times 9$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 700/380 = 14·2/7·3 knots.
Armament: 3—18 in. (2 bow, 1 stern) T.T.
Complement: 21.

U.A.	9.5.14	24.11.18 surrendered, 1919 scrapped, Bo'ness.

Notes: Completed 1914, builder: Germaniawerft, Kiel. Ordered by Norway as A5, 5.8.14 taken over by Germany as U.O., 28.8.14 U.A. From 1916 training duties. 1917 1—3·4 in. gun.



Surrendered submarines flying the Japanese flag. U46 nearest and UB143 centre.
[*Imperial War Museum*

UB SERIES SUBMARINES

UB.I class UB.1-UB.8

Displacement: 127/142 tons.
Dimensions: $92\frac{1}{4} \times 9\frac{3}{4} \times 10$ ft.
Machinery: 1-shaft diesel/electric motor, B.H.P. 60/120 = 6·5/5·5 knots.
Armament: 2—18 in. (bow) T.T.
Complement: 14.

UB.1	19.1.15	9.7.18 wrecked, Adriatic, scrappped.
UB.2	18.2.15	19.2.19 stricken, scrapped.
UB.3	5.3.15	5.15 missing, Aegean Sea.
UB.4	—	15.8.15 sunk North Sea, R.N. trawler INVERLYON.
UB.5	—	19.2.19 stricken, scrapped.
UB.6.	—	1919 surrendered, to France, 1921 scrapped, Brest.
UB.7	—	10.16 mined? or sunk by Russians, Black Sea.
UB.8	—	25.2.19 surrendered, to France, 1921 scrapped, Brest.

Notes: Completed 1915, builders: Germaniawerft, Kiel.
UB.1 to Austria 4.6.15 as U.10. UB.4-UB.6 sent to Antwerp for erection. UB.1, UB.3, UB.7, UB.8, to Pola for erection.

UB.9 class UB.9-UB.17

Dimensions: $91\frac{1}{2}$ ft.
Speed: 7·5/6·2 knots.
All other details as UB.1 class.

UB. 9	6.2.15	19.2.19 stricken, 1919 scrapped.
UB.10	20.2.15	5.10.18 scuttled Bruges, on evacuation.
UB.11	2.3.15	19.2.19 stricken, 1919 scrapped.
UB.12	2.3.15	8.18 mined and sunk off Heligoland.
UB.13	8.3.15	24.4.16 caught in mine nets off Walcheren and sunk.
UB.14	23.3.15	25.11.18 Sebastopol, 1919 surrendered, Malta, 1920 scrapped.
UB.15	—	1919 scrapped, Pola.
UB.16	26.4.15	10.5.18 torpedoed and sunk, North Sea, R.N. submarine E.34.
UB.17	21.4.15	11.3.18 sunk off Dutch coast, R.N. destroyer ONSLOW.

Notes: Completed 1915, builders: A. G. Weser, Bremen. UB.10, UB.12, UB.16, UB.17 to Antwerp for erection. UB.14, UB.15 to Pola for erection. UB.15 4.6.15 to Austria as U.11. UB.10, UB.12, UB.16, UB.17 rebuilt Bruges as minelayers, length increased to 105 ft. 4 mine tubes, 8 mines. UB.13 some accounts give loss as by armed Lowestoft smack TELESIA, but this is due to confusion with another submarine attacked on same day.

UB2 coming alongside the depot ship, flying French flag below her own ensign to denote she has sunk a French ship. A 1918 photograph. [*P. A. Vicary*

UB4, one of the small submarines sent in sections to Antwerp for erection. [*National Maritime Museum*

UB.II series UB.18-UB.23

Displacement: 263/292 tons.
Dimensions: $118\frac{1}{2} \times 14\frac{1}{4} \times 12$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 284/280 = 9/5·8 knots.
Armament: 2—20 in. (bow) T.T., 1—4 pdr. gun.
Complement: 23.

UB.18	21.8.15	12.17 mined and sunk, English Channel.
UB.19	17.12.15	30.11.16 sunk by gunfire off Portland Bill, R.N. Q ship PENSHURST.
UB.20	26. 9.15	28.7.17 sunk by bombing off Flanders coast.
UB.21	26. 9.15	24.11.18 surrendered, 1920 foundered en route to breakers.
UB.22	9.10.15	20.1.18 mined and sunk, Heligoland Bight.
UB.23	9.10.15	29.7.17 interned Corunna (Spain) after depth charge attack, 22.2.19 surrendered Cherbourg, to France, 1921 scrapped, Brest.

Notes: Completed 1915/16, builders: Blohm & Voss, Hamburg. UB.18, UB.21-23, 1916/17 1—3·4 in. gun.

UB.24 class UB.24-UB.29

Displacement: 265/291 tons.
Dimensions: $118\frac{1}{2} \times 14\frac{1}{2} \times 12$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 270/280 = 8·9/5·7 knots.
Armament: 2—20 in. (bow) T.T., 1—4 pdr. gun.

UB.24	18.10.15	24.11.18 surrendered, to France, 1921 scrapped, Brest.
UB.25	22.11.15	19.3.17 sunk in collision, Kiel, with V26, salved, 26.11.18 surrendered, 1922 scrapped Canning Town (London).
UB.26	14.12.15	5.4.16 sunk in harbour defences, Le Havre, salved, 30.8.17 to France as LIEUTENANT MORILLOT, 3.1.24 stricken, 1931 scrapped, Cherbourg.
UB.27	10. 2.16	29.7.17 sunk, North Sea, R.N. sloop HALCYON.
UB.28	20.12.15	24.11.18 surrendered, 1919/20 scrapped, Bo'ness.
UB.29	31.12.15	13.12.16 sunk English Channel, R.N. destroyer ARIEL.

Notes: Completed 1915/16, builders: A. G. Weser, Bremen. 1916/17 UB.24, UB.25, UB.27, 1—3·4 in. gun. UB.29 Some German accounts give destroyer as LANDRAIL.

UB.30 class UB.30-UB.41

Displacement: 274/303 tons.
Dimensions: $121 \times 14\frac{1}{2} \times 12$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 270/280 = 9·5/5·7 knots.
Armament: 2—20 in. (bow) T.T., 1—3·4 in. gun.
Complement: 23.

UB.30	16.11.15	25.2.17 stranded, Walcheren, salved and interned, 3.8.17 released, 13.8.18 sunk North Sea, R.N. trawler JOHN GILLMANN.
UB.31	16.11.15	2.5.18 sunk Dover Straits, R.N. drifters LORD LEITRIM, LOYAL FRIEND, OCEAN ROAMER
UB.32	4.12.15	9.17 bombed and sunk, English Channel.
UB.33	4.12.15	11.4.18 mined and sunk, English Channel.
UB.34	28.12.15	26.11.18 surrendered, 1922 scrapped, Canning Town.
UB.35	28.12.15	26.1.18 sunk, English Channel, R.N. destroyer LEVEN.
UB.36	15. 1.16	21.5.17 rammed and sunk, English Channel, French S.S. MOLIERE.
UB.37	28.12.15	14.1.17 sunk, English Channel, R.N. Q ship PENSHURST.
UB.38	1. 4.16	8.2.18 mined and sunk, English Channel.
UB.39	29.12.15	17.5.17 sunk English Channel, off Isle of Wight, R.N. Q ship GLEN (auxiliary schooner).
UB.40	25. 4.16	1.10.18 scuttled, Ostend, on evacuation.
UB.41	6. 5.16	5.10.17 mined and sunk, North Sea.

Notes: Completed 1916, builders: Blohm & Voss, Hamburg.

UB.42

Displacement: 279/305.
All other details as UB.30 class.

UB.42	4.3.16	25.11.18 Sebastopol, 1919 surrendered, Malta, scrapped.

Notes: Completed 1916, builder: A. G. Weser, Bremen.

UB.43 class UB.43-UB.47

Displacement: 272/305 tons.
Machinery: 2-shaft diesel/electric motors, B.H.P. 284/280 = 8·8/6·2 knots.
All other details as for UB.30 class.

UB.43	8.4.16	6.11.18 surrendered, Venice, 1919 scrapped.
UB.44	20.4.16	4.8.16 sunk, Ionian Sea, R.N. patrol vessels QUARRIE, KNOWE, GARRAGILL.
UB.45	12.5.16	6.11.16 mined and sunk, Black Sea, 1936 raised, scrapped Bulgaria.
UB.46	31.5.16	7.12.16 mined and sunk, Black Sea.
UB.47	17.6.16	6.11.18 surrendered, Venice, 1919 scrapped.

Notes: Completed 1916, builders: A. G. Weser, Bremen. UB.43 15.7.17 to Austria as U.43.

UB.III Series

UB.48 class UB.48-UB.53

Displacement: 516/651 tons.
Dimensions: 182 × 19 × 12 ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 1,100/788 = 13·6/8 knots.
Armament: 5—20 in (4 bow, 1 stern) T.T., 1—3·4 in. gun.
Complement: 34.

UB.48	6.1.17	28.10.18 scuttled, Pola, on evacuation.
UB.49	6.1.17	16.1.19 surrendered, 1922 scrapped, Swansea.
UB.50	6.1.17	,, ,, ,,
UB.51	8.3.17	,, ,, ,,
UB.52	8.3.17	25.5.18 torpedoed and sunk, Adriatic, R.N. submarine H.4.
UB.53	9.3.17	3.8.18 sunk, mine nets, Straits of Otranto.

Notes: Completed 1917, builders: Blohm & Voss, Hamburg. From 1918 UB.48-UB.51 1—4·1 in. gun. UB.48, UB.49, UB.51, UB.53 temporarily served with Austrian Navy, as, respectively U.79, U.80, U.81, U.84, with German crews.

UB.54 class UB.54-UB.59

Displacement: 516/646 tons.
Machinery: 2-shaft diesel/electric motors, B.H.P. 1,060/788 = 13·4/7·8 knots.
All other details as UB.48 class.

UB.54	18.4.17	11.3.18 sunk, North Sea, R.N. destroyers STURGEON, THRUSTER and RETRIEVER.
UB.55	9.5.17	22.4.18 mined and sunk, English Channel.
UB.56	6.6.17	19.12.17 mined and sunk, English Channel.
UB.57	21.6.17	14.8.18 mined and sunk, English Channel, off Zeebrugge.
UB.58	5.7.17	10.3.18 mined and sunk, English Channel, Dover Straits.
UB.59	21.7.17.	5.10.18 scuttled, Zeebrugge, on evacuation.

Notes: Completed 1917, builders: A. G. Weser, Bremen. 1918 UB.59 1—4·1 in. gun.

UB.60 class UB.60-UB.65

Displacement: 508/639 tons.
All other details as UB.48 class.

UB.60	14.4.17	26.11.18 surrendered, 1921 stranded en route to breakers.
UB.61	28.4.17	29.11.17 mined and sunk off Terschelling.
UB.62	11.5.17	21.11.18 surrendered, 1922 scrapped, Swansea.
UB.63	26.5.17	28.1.18 sunk, Firth of Forth, R.N. trawlers W.S. BAILEY, FORT GEORGE.
UB.64	9.6.17	21.11.18 surrendered, 1921 scrapped, Fareham.
UB.65	26.6.17	10.7.18 blew up off Cape Clear in action with U.S.N. submarine L.2.

Notes: Completed 1917, builders: A. G. Vulcan, Hamburg. 1918 UB.62 UB.64 1—4·1 in. gun.

UB.66 class UB.66-UB.71

Displacement: 513/647 tons.
Machinery: 2-shaft diesel/electric motors, B.H.P. 1,100/788 = 13·2/7·6 knots.
All other details as UB.48 class.

UB.66	31.5.17	18.1.18 sunk off Bizerta, R.N. sloop CAMPANULA.
UB.67	16.6.17	24.11.18 surrendered, 1922 scrapped, Swansea.
UB.68	4.7.17	4.10.18 damaged in action and scuttled, Ionian Sea, R.N. sloop SNAPDRAGON and trawler CRADOSIN.
UB.69	7.8.17	9.1.18 sunk, Straits of Sicily, R.N. sloop CYCLAMEN.
UB.70	17.8.17	8.5.18 sunk, Straits of Gibraltar, R.N. destroyer BASILISK and U.S. S.S. LYDONIA.
UB.71	12.7.17	21.4.18 sunk off Minorca, R.N. ML.413.

Notes: Completed 1917, builders: Germaniawerft, Kiel. 1918 UB.67, UB.68 1—4·1 in. gun. UB.66, UB.68, UB.69, UB.70, UB.71, temporarily served with Austrian Navy. as, respectively U.66, U.68, U.69, U.70, U.71, with German crews.

UB.72 class UB.72-UB.74

All details as UB.60 class.

UB.72	30.7.17	12.5.18 torpedoed and sunk, English Channel, R.N. submarine D.4.
UB.73	11.8.17	21.11.18 surrendered, to France, 1921 scrapped Brest.
UB.74	13.9.17	26.5.18 sunk, English Channel, off Portland, R.N. yacht LORNA.

Notes: Completed 1917, builders: A. G. Vulcan, Hamburg. UB.72, UB.73 temporarily served with Austrian Navy as U.72, U.73, with German crews.

UB.75 class UB.75-UB.79

Displacement: 516/648 tons.
All other details as UB.48 class.

UB.75	5.5.17	10.12.17 mined and sunk, North Sea.
UB.76	5.5.17	12.2.19 surrendered, 1922 scrapped, Rochester.
UB.77	5.5.17	16.1.19 surrendered, 1922 scrapped, Swansea.
UB.78	2.6.17	9.5.18 sunk, English Channel, by ramming, transport QUEEN ALEXANDRA.
UB.79	3.6.17	26.11.18 surrendered, 1922 scrapped, Swansea.

Notes: Completed 1917, builders: Blohm & Voss, Hamburg. 1918 UB.77 UB.79 1—4·1 in. gun.

UB.80 class UB.80-UB.87

All details as UB.54 class.

UB.80	4. 8.17	26.11.18 surrendered, to Italy, 1919 scrapped, La Spezia.
UB.81	18. 8.17	1.12.17. mined and sunk off Isle of Wight.
UB.82	1. 9.17	17.4.18 sunk, Irish Sea, off N. Ireland, R.N. drifters PILOT ME, YOUNG FRED.
UB.83	15. 9.17	10.9.18 sunk off Orkneys, R.N. destroyer OPHELIA.
UB.84	3.10.17	7.12.17 sunk in collision, Baltic, salved, recommissioned, 26.11.18 surrendered, to France, 1921 scrapped, Brest.
UB.85	26.10.17	30.4.18 sunk Irish Sea, R.N. sloop COREOPSIS.
UB.86	10.10.17	24.11.18 surrendered, 1921 scrapped, Falmouth.
UB.87	10.11.17	20.11.18 surrendered, to France, 1921 scrapped, Brest.

Notes: Completed 1917, builders: A. G. Weser, Bremen. 1918 UB.86 1—4·1 in. gun.

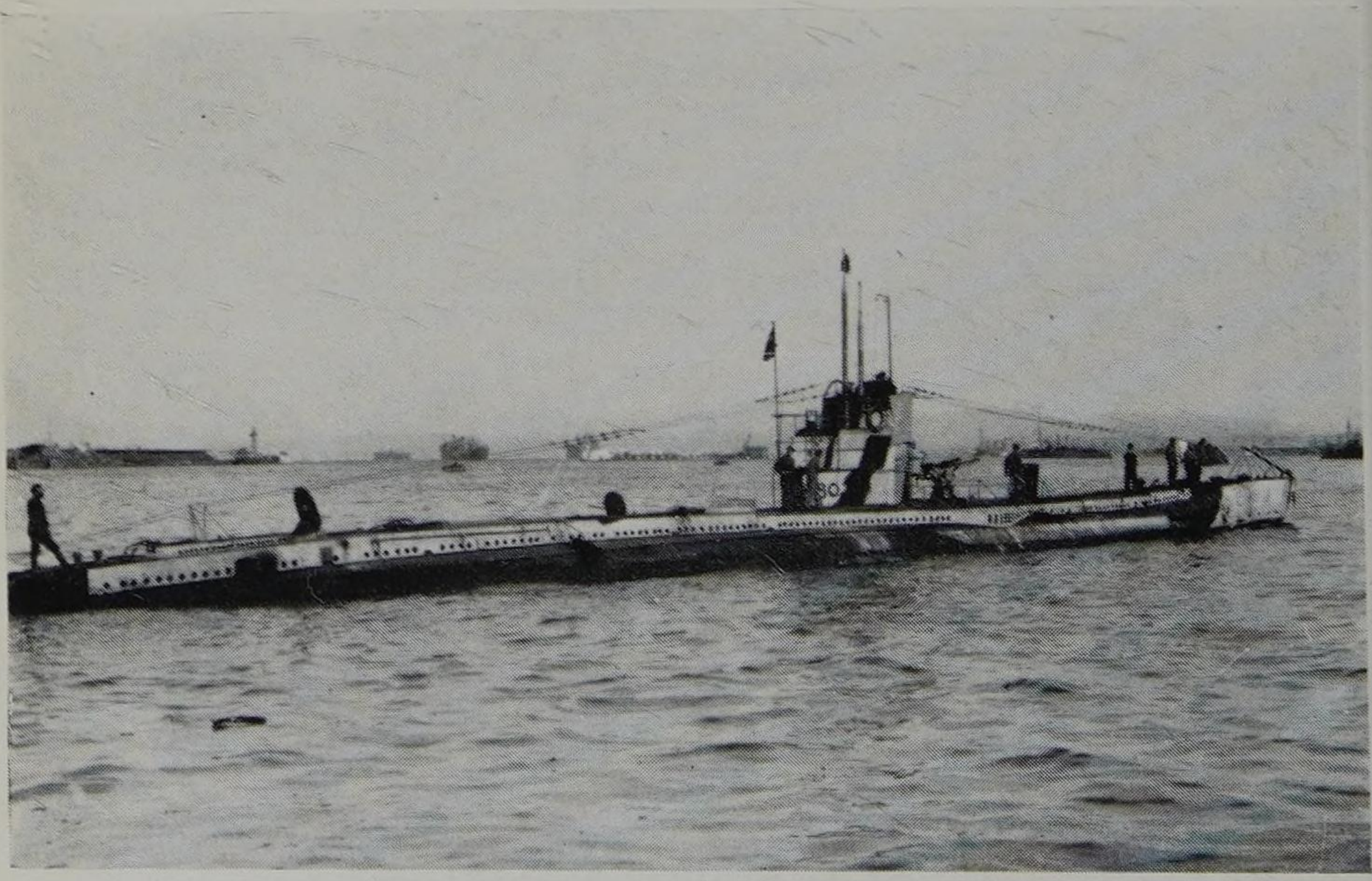
UB.88 class UB.88-UB.102

Displacement: 510/640 tons.
Armament: 5—20 in. (4 bow, 1 stern) T.T., 1—4·1 in. gun.
All other details as UB.72 class.

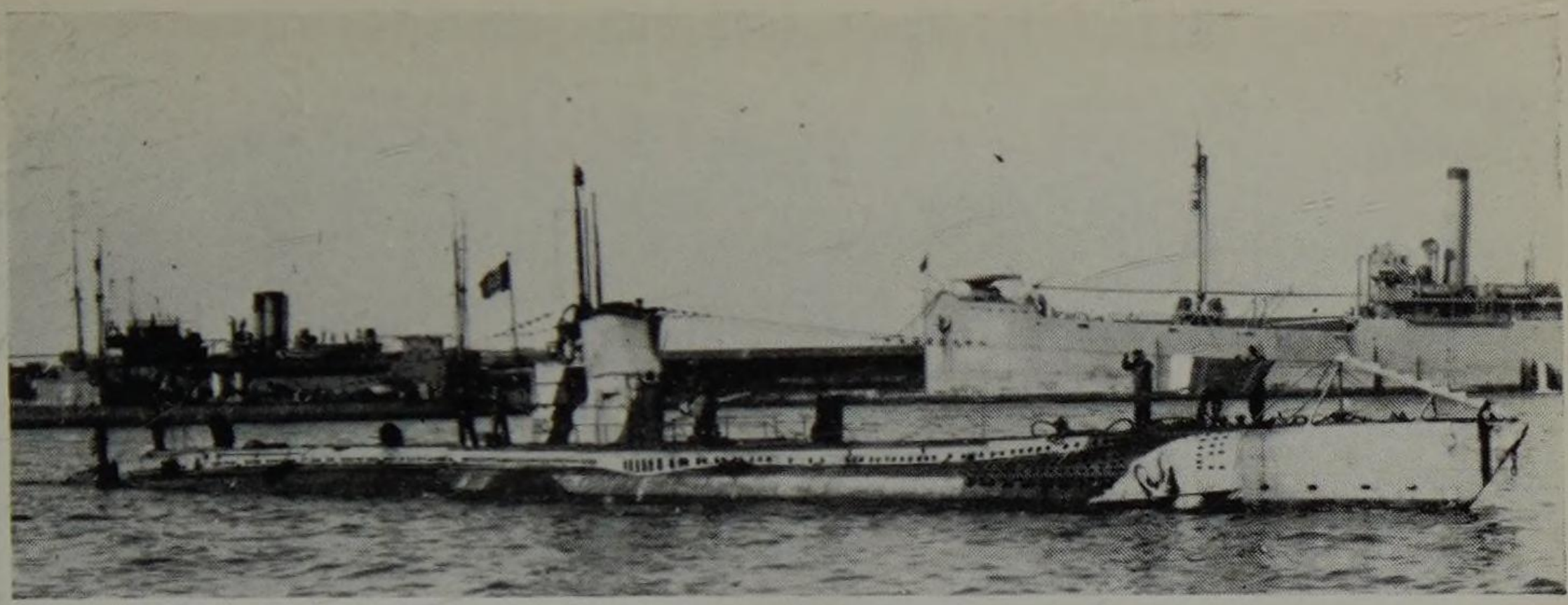
UB.88	11.12.17	26.11.18 surrendered, to U.S.A. After display in various U.S. ports, 3.1.21 sunk as target ,San Pedro, U.S. destroyer WILKES.
UB.89	22.12.17	21.10.18 sunk in collision off Kiel, German cruiser FRANKFURT, 30.10.18 salved, 7.3.19 foundered, raised and 1920 scrapped, Dordrecht.

UB.90	12. 2.18	16.10.18 torpedoed and sunk, North Sea, R.N. submarine L.12.
UB.91	7. 3.18	21.11.18 surrendered, 1921 scrapped, Briton Ferry.
UB.92	25. 3.18	21.11.18 surrendered, 1919/20 scrapped, Bo'ness.
UB.93	12. 4.18	21.11.18 surrendered, 1922 scrapped, Rochester.
UB.94	29. 4.18	21.11.18 surrendered, to France as TRINITE SCHILLEMANS, 1935 scrapped.
UB.95	10. 5.18	21.11.18 surrendered, to Italy, 1919 scrapped, La Spezia.
UB.96	31. 5.18	21.11.18 surrendered, 1919/20 scrapped, Bo'ness.
UB.97	13. 6.18	21.11.18 surrendered, 1921 scrapped, Falmouth.
UB.98	5. 7.18	21.11.18 surrendered, 1922 scrapped, Portmadoc.
UB.99	29. 7.18	26.11.18 surrendered, to France as CARISSAN 1935 scrapped.
UB.100	13. 8.18	22.11.18 surrendered, 1922 scrapped, Dordrecht.
UB.101	28. 8.18	26.11.18 surrendered, 1919/20 scrapped, Felixstowe.
UB.102	13. 9.18	22.11.18 surrendered, to Italy, 1919 scrapped, La Spezia.

Notes: Completed 1918, builders: A. G. Vulcan, Hamburg.



UB80 at Gibraltar, allocated to Italy. [*P. A. Vicary*



Another photograph of UB80 flying the Italian flag at Gibraltar. [*P. A. Vicary*

UB.103 class UB.103-UB.117

Displacement: 519/649 tons. UB.103, UB.105, UB.109—510/629 tons.
Armament: 5—20 in. (4 bow, 1 stern) T.T., 1—3·4 in. gun. UB.115-UB.117 1—4·1 in. gun.
All other details as UB.48 class.

UB.103	7. 7.17	16.9.18 sunk, Dover Straits, R.N. drifters and airship SSZ.1.
UB.104	1. 9.17	19.9.18 mined and sunk, Northern Barrage.
UB.105	7. 7.17	16.1.19 surrendered, 1922 scrapped, Felixstowe.
UB.106	21. 7.17	15.3.18 lost by accident, Baltic, salved and recommissioned, 26.11.18 surrendered, 1921 scrapped, Falmouth
UB.107	21. 7.17	27.7.18 sunk, North Sea, R.N. yacht VANESSA and 3 trawlers.
UB.108	21. 7.17	8.18 mined? English Channel.
UB.109	7. 7.17	29.8.18 mined and sunk, Dover Straits.
UB.110	1. 9.17	19.7.18 sunk, North Sea, R.N. destroyer GARRY and ML.23.
UB.111	1. 9.17	21.11.18 surrendered, 1919/20 scrapped, Bo'ness.
UB.112	15. 9.17	24.11.18 surrendered, 1921 scrapped, Falmouth.
UB.113	23. 9.17	9.10.18 mined and sunk, English Channel.
UB.114	23. 9.17	26.11.18 surrendered, to France for experimental work, 1921 scrapped, Toulon.
UB.115	4.11.17	29.9.18 sunk North Sea, R.N. destroyers OUSE, STAR, trawlers and airship R29.
UB.116	4.11.17	28.10.18 mined and sunk off Scapa Flow, 1919 raised and scrapped.
UB.117	21.11.17	26.11.18 surrendered, 1919/20 scrapped, Felixstowe.

Notes: Completed 1918, builders: Blohm & Voss, Hamburg. 1918 UB.103-UB.106, UB.111-UB.113 1—4·1 in. gun. UB.105 temporarily served with Austrian Navy as U.97, with German crew.

UB.118 class UB.118-UB.132

Displacement: 512/643 tons.
Armament: 5—20 in. (4 bow, 1 stern) T.T. 1—3·4 in. gun. UB.123, UB.125-UB.132 1—4·1 in. gun.
All other details as UB.54 class.

UB.118	13.12.17	20.11.18 surrendered, to France, 15.4.19 stranded on passage Harwich-Cherbourg.
UB.119	13.12.17	5.18 mined? North Sea.
UB.120	23. 2.18	24.11.18 surrendered, 1922 scrapped, Swansea.
UB.121	6. 1.18	20.11.18 surrendered, to France for experimental work, 7.21 scrapped Toulon.
UB.122	2. 2.18	24.11.18 surrendered, 1921 stranded en route to breakers.
UB.123	2. 3.18	19.10.18 mined and sunk, Northern Barrage.
UB.124	19. 3.18	20.7.18 sunk, Irish Sea, R.N. destroyers MARNE, MILBROOK, PIGEON and patrol craft.
UB.125	16. 4.18	20.11.18 surrendered, to Japan as 06, 1921 scrapped Kure.
UB.126	12. 3.18	24.11.18 surrendered, to France for experimental work, 7.21 scrapped, Toulon.
UB.127	27. 4.18	9.18 mined and sunk, Northern Barrage.
UB.128	10. 4.18	3.2.19 surrendered, 1921 scrapped, Falmouth.
UB.129	11. 5.18	31.10.18 scuttled, Fiume, on evacuation.
UB.130	27. 5.18	26.11.18 surrendered, to France for experimental work, 7.21 scrapped, Toulon.
UB.131	4. 6.18	24.11.18 surrendered, 1921 scrapped, Hastings.
UB.132	22. 6.18	21.11.18 surrendered, scrapped, Swansea.

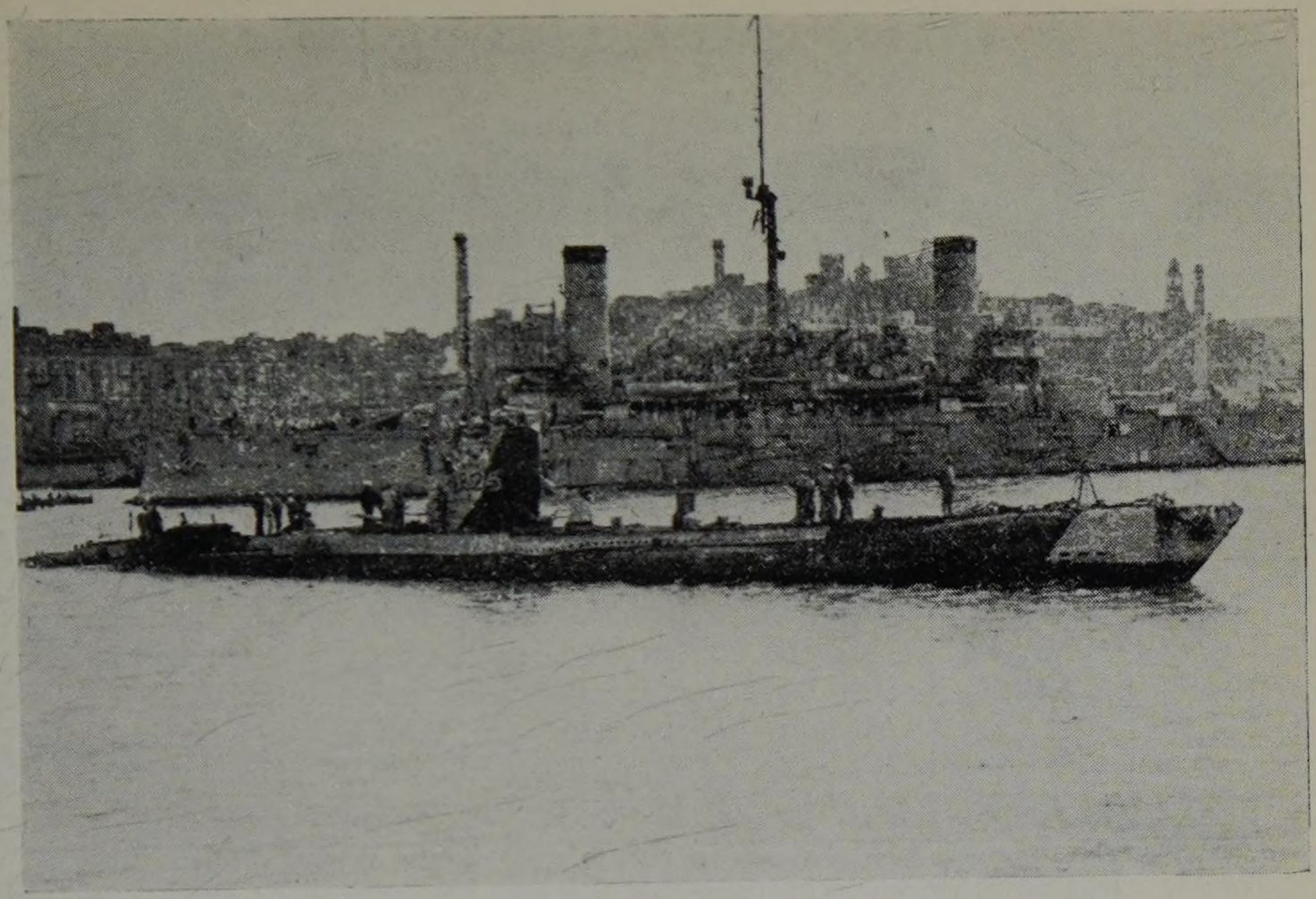
Notes: Completed 1918, builders: A. G. Weser, Bremen. UB.128 temporarily served with Austrian Navy as U.54, with German crew.

UB.133 class UB.133-UB.141

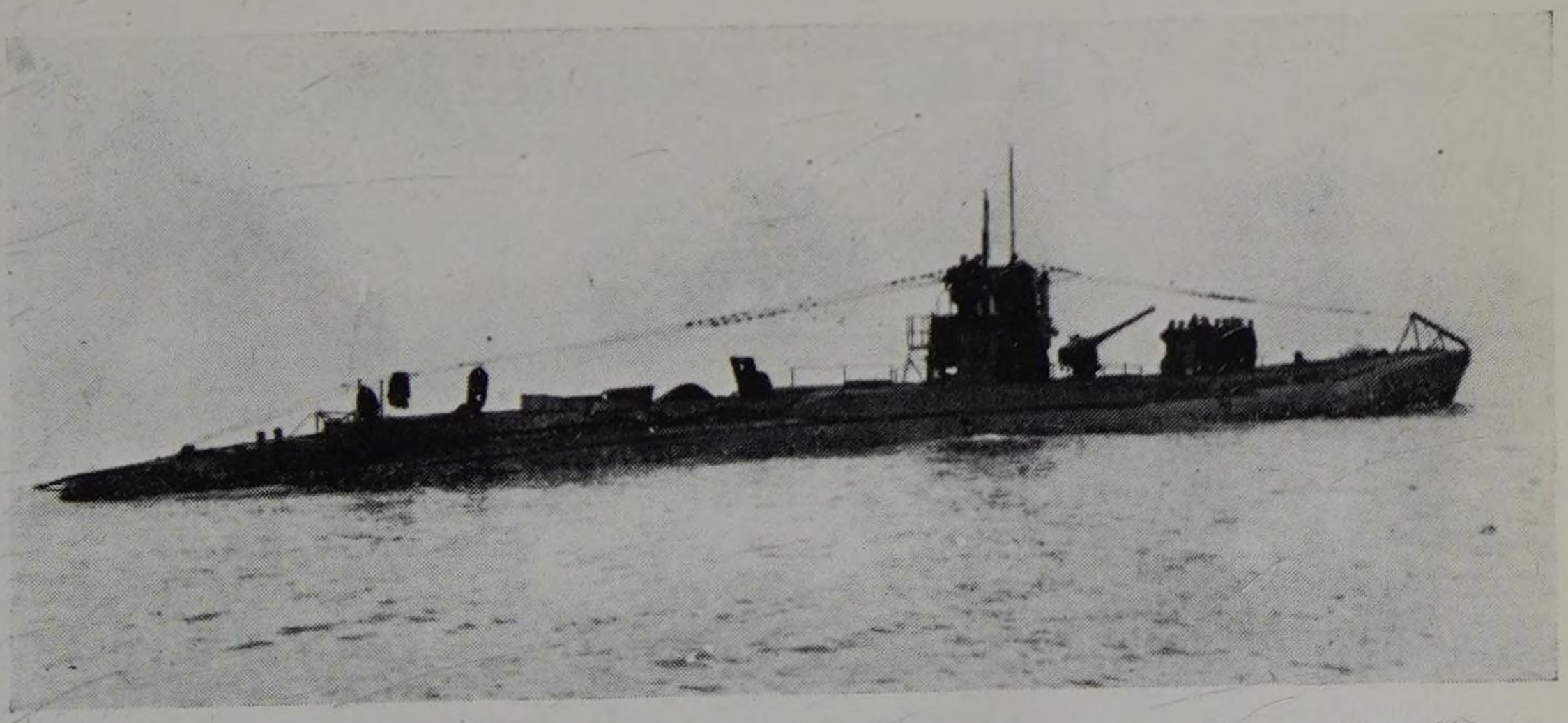
Displacement: 533/656 tons.
All other details as UB.66 class but 1—4·1 in. gun.

UB.133	27. 9.18	Hull only surrendered, 1923 scrapped, Rochester.
UB.134	18	1919 scrapped before completion.
UB.135	18	1919 scrapped before completion.
UB.136	27. 9.18	Hull only surrendered, 1922 scrapped, Rochester
UB.137 to UB.141		All launched 1918 but scrapped 1919 before completion.

Notes: Builders: Germaniawerft, Kiel. UB.137 Main engines surrendered.



UB125 at Malta 1919 on passage to Japan. Japanese cruiser NISSHIN in background. [*P. A. Vicary*



Submarine of UB142 class. [*Imperial War Museum*

UB.142 class UB.142-UB.153

Displacement: 523/653 tons.
All other details as UB.54 class but 1—4·1 in. gun.

UB.142	23. 7.18	22.11.18 surrendered, to France, 1921 scrapped, Landerneau.
UB.143	21. 8.18	13.11.18 interned Karlskrona, 26.11.18 surrendered, to Japan as 07, 1921 scrapped, Yokohama.
UB.144	5.10.18	27.3.19 surrendered, uncompleted, 1922 scrapped Rochester.
UB.145	10.18	,, ,, ,,
UB.146	18	Scrapped before completion.
UB.147	18	,, ,,
UB.148	7. 8.18	13.11.18 interned Karlskrona, 26.11.18 surrendered. to U.S.A., sunk as target U.S. destroyer SICARD.
UB.149	19. 9.18	22.11.18 surrendered, 1922 scrapped, Swansea.
UB.150	19.10.18	Hull only surrendered, 1922 scrapped, Rochester.
UB.151 to UB.153		All launched 1918 but scrapped before completion.

Notes: Builders: A. G. Weser, Bremen. UB.148 1—3·4 in. gun.

UB.154 class UB.154-UB.169

Displacement: 539/656 tons.
All other details as UB.54 class, but 1—4·1 in. gun.

UB.154	18	9.3.19 surrendered, uncompleted, to France, 1921 scrapped, Brest.
UB.155	26.10.18	9.3.19 surrendered, to France as JEAN CORRE, 1936 scrapped.
UB.156 to UB.169		Some commenced and broken up on stocks in early stages 1919, others projected only.

Notes: Builders: A. G. Vulcan, Hamburg.

UB.170 class UB.170-UB.177

Displacement: 533/636 tons.
Dimensions: 183 × 19 × 12 ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 1,060/788 = 13·5/7·5 knots.
Armament: 5—20 in. (4 bow, 1 stern) T.T., 1—4·1 in. gun.

UB.170 to UB.175	1919 scrapped on stocks.
UB.176 to UB.177	Projected only, cancelled. Builders: Germaniawerft, Kiel.

UB.178 class UB.178-UB.187

Displacement: 555/684 tons.
All other details as UB.170 class.

UB.178 to UB.184	1919 scrapped on stocks.
UB.185 to UB.187	Projected only, cancelled. Builders: A. G. Weser, Bremen.

UB.188 class UB.188-UB.205

Displacement: 539/656 tons.
All other details as UB.154 class.

UB.188 to UB.195	Projected only, cancelled.
UB.196 to UB.205	1919 scrapped on stocks. Builders: A. G. Vulcan, Hamburg.

UB.206 class UB.206-UB.219

All details as UB.178 class.

UB.206 to UB.219	Projected only, cancelled. Builders: A. G. Weser, Bremen.

UB.220 class UB.220-UB.249

All details as UB.188 class.

UB.220 to UB.249	Projected only, cancelled. Builders: A. G. Vulcan, Hamburg.

UC SERIES SUBMARINES

UC.1 class UC.1-UC.10

Displacement: 168/183 tons.
Dimensions: $111\frac{1}{2} \times 10\frac{1}{4} \times 10$ ft.
Machinery: 1-shaft heavy oil/electric motor, B.H.P. 90/175 = 6·25/5·25 knots.
Armament: 6 mine tubes (vertically inclined) 12 mines, 1 m.g.
Complement: 14.

UC.1	26.4.15	25.7.17 bombed and sunk by seaplanes, Thames Estuary, off Sunk L.V.
UC.2	12.5.15	2.7.15 rammed off Yarmouth, S.S. COTTINGHAM, 1915 raised and later scrapped.
UC.3	28.5.15	27.5.16 mined and sunk, North Sea.
UC.4	6.6.15	5.10.18 scuttled, Bruges, on evacuation.
UC.5	13.6.15	27.4.16 stranded off Harwich and captured, put on display, later scrapped.
UC.6	20.6.15	28.9.17 bombed and sunk by seaplanes, Thames, Estuary, off Sunk L.V.
UC.7	6.7.15	6.7.16 sunk off Yarmouth, R.N. patrol boat SALMON.
UC.8	6.7.15	4.11.15 stranded, Terschelling, interned Nieuwdiep and Alkmaar, 1915 to Netherlands as M.1, 1932 scrapped.
UC.9	11. 7.15	21.10.15 mined and sunk, North Sea.
UC.10	15.7.15	21.8.16 torpedoed and sunk, North Sea, off Schouwen, R.N. submarine E.54.

Notes: Completed 1915, builders: A. G. Vulcan, Hamburg.

UC.11 class UC.11-UC.15

Machinery: 1-shaft heavy oil/electric motor, B.H.P. 80/175 = 6·5/5·7 knots.
All other details as UC.1 class.

UC.11	11.4.15	26.6.18 mined and sunk, North Sea.
UC.12	29.4.15	16.3.16 blown up on own mines off Taranto, salved and to Italy as X.1, 6.5.19 scrapped.
UC.13	5.15	29.11.15 foundered in storm, Black Sea.
UC.14	13.5.15	3.10.17 mined and sunk off Zeebrugge.
UC.15	19.5.15	11.16 mined and sunk, Black Sea.

Notes: Completed 1915, builders: A. G. Weser, Bremen. UC.11 1 diesel instead of heavy oil engine and from 1916 1—18 in. (bow) T.T.
UC.12, UC.13, UC.14, UC.15 transported in sections by rail to Pola for assembly, later temporarily served with Austrian Navy as, respectively U.24, U.25, U.18, U.19, with German crews. UC.14 later transported, again in sections, to Ostend.

The small minelaying submarine UC5 after capture and on display.

[*Imperial War Museum*

UC.16 class UC.16-UC.24

Displacement: 417/493 tons.
Dimensions: 162 × 17 × 12 ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 500/460 = 11·6/7 knots.
Armament: 3—20 in. (2 bow, 1 stern) T.T., 1—3·4 in. gun, 6 mine tubes (vertically inclined), 18 mines.
Complement: 26.

UC.16	1.2.16	23.10.17 sunk, English Channel, R.N. destroyer MELAMPUS.
UC.17	19.2.16	26.11.18 surrendered, 1919/20 scrapped, Preston.
UC.18	4.3.16	19.2.17 sunk, English Channel, R.N. Q Ship LADY OLIVE.
UC.19	15.3.16	6.12.16 sunk, Dover Straits, R.N. destroyer LLEWELLYN.
UC.20	1.4.16	16.1.19 surrendered, 1919/20 scrapped, Preston.
UC.21	1.4.16	27.9.17 sunk in mine nets off North Foreland.
UC.22	1.2.16	3.2.19 surrendered, to France, 1921 scrapped Landerneau.
UC.23	19.2.16	25.11.18 Sebastopol, 1919 surrendered, to France, 1921 scrapped, Bizerta.
UC.24	4.3.16	24.5.17 torpedoed and sunk off Cattaro, French submarine CIRCÉ.

Notes: Completed 1916, builders: Blohm & Voss, Hamburg. 1918 1—4·1 in. gun fitted on some boats. UC.20, UC.22, UC.24, temporarily served with Austrian Navy, as respectively U.60, U.62, U.88, with German crews. UC.19 German accounts give loss as by R.N. destroyer ARIEL.

UC.25 class UC.25-UC.33

All details as UC.16 class.

UC.25	10.6.16	28.10.18 scuttled, Pola, on evacuation.
UC.26	22.6.16	9.5.17 sunk Thames Estuary, R.N. destroyers MILNE, MENTOR, MIRANDA.
UC.27	28.6.16	3.2.19 surrendered, to France, 1921 scrapped Landerneau.
UC.28	8.7.16	12.2.19 surrendered, to France, scrapped.
UC.29	15.7.16	7.6.17 sunk, Atlantic off S. Ireland, R.N. Q ship PRIVET.
UC.30	27.7.16	19.4.17 mined and sunk, North Sea.
UC.31	7.8.16	26.11.18 surrendered, 1922 scrapped, Canning Town.
UC.32	12.8.16	23.2.17 blown up by own mines, North Sea, off Sunderland.
UC.33	26.8.16	26.9.17 sunk off S. Ireland, R.N. patrol boat PC61.

Notes: Completed 1916, builders: A. G. Vulcan, Hamburg. UC.25, UC.27 temporarily served with Austrian Navy as U.89, U.90, with German crews.

UC.34 class UC.34-UC.39

Displacement: 427/509 tons.
Dimensions: 165 × 17 × 12 ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 600/460 = 11·9/6·8 knots.
All other details as UC.16 class.

UC.34	6.5.16	30.10.18 scuttled, Pola, on evacuation.
UC.35	6.5.16	16.5.18 sunk, Mediterranean, s.w. of Sardinia, French patrol boat AILLY.
UC.36	25.6.16	20.5.17 bombed and sunk by seaplanes off Hinder L.V.
UC.37	5.6.16	1919 surrendered, Malta, 1920 scrapped.
UC.38	5.6.16	14.12.17 sunk, Ionian Sea, French destroyer LANSQUENET.
UC.39	25.6.16	8.2.17 sunk North Sea, off Flamborough Head, R.N. destroyer THRASHER.

Notes: Completed 1916, builders: Blohm & Voss, Hamburg. UC.34, UC.35, UC.36, UC.37, UC.38 temporarily served with Austrian Navy as, respectively U.74, U.75, U.76, U.77, U.78, with German crews.

UC.40 class UC.40-UC.45

Machinery: 2-shaft diesel/electric motors, B.H.P. 520/460 = 11·7/6·7 knots.
All other details as UC.25 class.

UC.40	5.9.16	21.2.19 sunk by accident, North Sea, en route to surrender.
UC.41	13. 9.16	21.8.17 sunk, Firth of Tay, R.N. trawlers JACINTA, THOMAS YOUNG, CHIKARA.
UC.42	21. 9.16	10.9.17 blown up by own mines, Irish Sea, S. of Cork.
UC.43	5.10.16	10.3.17 torpedoed and sunk, off Shetlands, R.N. submarine G.13.
UC.44	10.10.16	6.8.17 mined and sunk off S. Ireland, 9.17 raised and scrapped.
UC.45	20.10.16	17.9.17 sunk by accident, diving failure, North Sea, 11.4.18 salved, re-commissioned, 24.11.18 surrendered, 1919/20 scrapped, Preston.

Notes: Completed 1916, builders: A. G. Vulcan, Hamburg.

UC.46 class UC.46-UC.48

Displacement: 420/502 tons.
Dimensions: 169 × 17 × 12 ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 600/460 = 11·7/6·9 knots.
All other details as UC.16 class.

UC.46	15.7.16	8.2.17 sunk, Dover Straits, R.N. destroyer LIBERTY.
UC.47	30.8.16	18.11.17 sunk, North Sea, off Flamborough Head, R.N. patrol boat P57.
UC.48	27.9.16	20.3.18 interned, Ferrol, after damage, 15.3.19 scuttled.

Notes: Completed 1916, builders: A. G. Weser, Bremen.. UC.47 German accounts give loss as by R.N. destroyer OPOSSUM.

UC.49 class UC.49-UC.54

Displacement: 434/511 tons.
Dimensions: 173 × 17 × 12 ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 600/620 = 11·8/7·2 knots.
All other details as UC.16 class.

UC.49	7.11.16	8.8.18 sunk, North Sea, R.N. destroyer OPOSSUM, and 7 motor launches.
UC.50	23.11.16	4.2.18 sunk, English Channel, R.N. destroyer ZUBIAN.
UC.51	5.12.16	13.11.17 sunk, North Sea off Lowestoft, R.N. destroyer FIREDRAKE.
UC.52	23. 1.17	16.1.19 surrendered, 1919/20 scrapped, Morecambe.
UC.53	27. 2.17	28.10.18 scuttled, Pola, on evacuation.
UC.54	20. 3.17	28.10.18 scuttled, Trieste, on evacuation.

Notes: Completed 1916/17, builders: Germaniawerft, Kiel. UC.52, UC.53, UC.54 temporarily served with Austrian Navy as, respectively U.94 U.95, U.96, with German crews.

UC.55 class UC.55-UC.60

Displacement: 415/498 tons.
Dimensions: 165½ × 17 × 12 ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 600/620 = 11·6/7·3 knots.
All other details as UC.16 class.

UC.55	2. 8.16	29.9.17 sunk, Atlantic off Lerwick, R.N. destroyers SYLVIA, TYRADE and trawler MORAVIA.
UC.56	26. 8.16	23.5.18 interned Santander, machinery defects, 26.3.19 surrendered, Cherbourg, to France, 1923 scrapped, Rochefort.
UC.57	7. 9.16	11.17 mined and sunk, Gulf of Finland.
UC.58	21.10.16	24.11.18 surrendered, to France, 1921 scrapped, Cherbourg.
UC.59	28. 9.16	21.11.18 surrendered, 1919/20 scrapped, Bo'ness.
UC.60	8.11.16	23.2.19 surrendered, 1921 scrapped, Rainham.

Notes: Completed 1916/17, builders: Danzig D.Y.

UC.61 class UC.61-UC.64

Displacement: 422/504 tons.
Machinery: 2-shaft diesel/electric motors, B.H.P. 600/620 = 11·9/7·2 knots.
All other details as UC.16 class.

UC.61	11.11.16	26.7.17 scuttled after stranding, English Channel, nr. Cap Griz Nez.
UC.62	9.12.16	19.10.17 torpedoed and sunk, North Sea, R.N. submarine E.45.
UC.63	6. 1.17	1.11.17 torpedoed and sunk, Dover Straits, R.N. submarine E.52.
UC.64	27. 1.17	20.6.18 mined and sunk, Dover Straits.

Notes: Completed 1916/17, builders: A. G. Weser, Bremen.

UC.65 class UC.65-UC.73

Displacement: 427/508 tons.
Machinery: 2-shaft diesel/electric motors, B.H.P. 600/620 = 12/7·4 knots.
All other details as UC.34 class.

UC.65	8.7.16	3.11.17 torpedoed and sunk, Dover Straits, R.N. submarine C.15.
UC.66	15.7.16	12.6.17 sunk, English Channel, R.N. trawler SEA KING.
UC.67	6.8.16	16.1.19 surrendered, 1919/20 scrapped, Briton Ferry.
UC.68	12.8.16	5.4.17 torpedoed and sunk, off Schouwen, R.N. submarine C.7.
UC.69	7.8.16	6.12.17 sunk in collision, English Channel, off Barfleur, German submarine U.96.
UC.70	7.8.16	5.6.17 sunk, Ostend, gunfire from R.N. monitors, salved, re-commissioned 1.18, 28.8.18 sunk, North Sea, R.N. destroyer OUSE.
UC.71	12.8.16	20.2.19 sunk by accident, North Sea, en route to surrender.
UC.72	12.8.16	22.9.17 bombed and sunk by seaplanes, off Sunk L.V.
UC.73	26.8.16	16.1.19 surrendered, 1919/20 scrapped, Briton Ferry.

Notes: Completed 1916, builders: Blohm & Voss, Hamburg. UC.67, UC.73 temporarily served with Austrian Navy as U.91 (and also U.100) and U.92 respectively, with German crews.

UC.74 class UC.74-UC.79

Displacement: 410/492 tons.
Dimensions: 166 × 17 × 12 ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 600/620 = 11·8/7·3 knots.
All other details as UC.16 class.

UC.74	19.10.16	21.11.18 interned Barcelona, lack of fuel, 26.3.19 surrendered, to France, 1921 scrapped, Toulon.
UC.75	6.11.16	31.5.18 sunk, North Sea, R.N. destroyer FAIRY.
UC.76	25.11.16	10.5.17 lost by accident off Heligoland, explosion of own mines, salved and re-commissioned. 13.11.18 interned, Karlskrona, 26.11.18 surrendered, 1919/20 scrapped, Briton Ferry.
UC.77	2.12.16	10.8.18 sunk Dover Straits, R.N. drifters.
UC.78	8.12.16	2.5.18 sunk, Dover Straits, R.N. drifters MARY, B.T.B., OUR FRIEND.
UC.79	19.12.16	4.18 mined and sunk, Dover Straits.

Notes: Completed 1916/17, builders: A. G. Vulcan, Hamburg. UC.74 temporarily served with Austrian Navy as U.93 with German crew.

UC.80 class UC.80-UC.86

Displacement: 474/560 tons.
Dimensions: 183¾ × 18¾ × 12½ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 600/770 = 11·5/6·6 knots.
Armament: 3—20 in. (2 side, above water, 1 stern) T.T., 1—3·4 in., or 4·1 in. gun, 6 mine tubes (vertically inclined) 14 mines.
Complement: 32.

UC.80 to UC.86	All cancelled, scrapped on stocks. Danzig D.Y.

UC.87 class UC.87-UC.89

Displacement: 480/566 tons.
Machinery: 2-shaft diesel/electric motors, B.H.P. 580/770 = 11·5/6·6 knots.
All other details as UC.80 class.

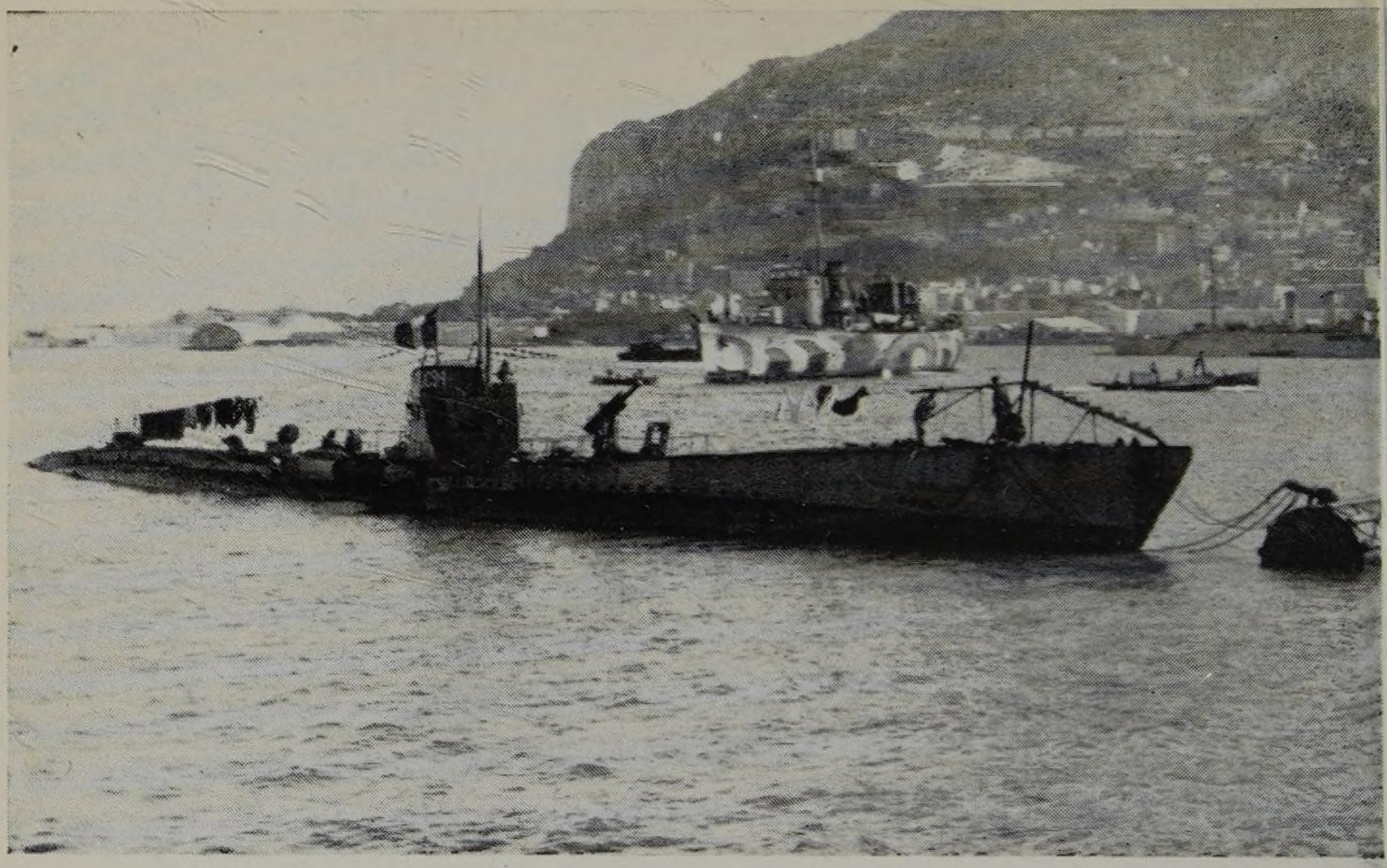
UC.87 to UC.89	All launched 1918, but scrapped before completion. A. G. Weser, Bremen.

UC.90 class UC.90-UC.118

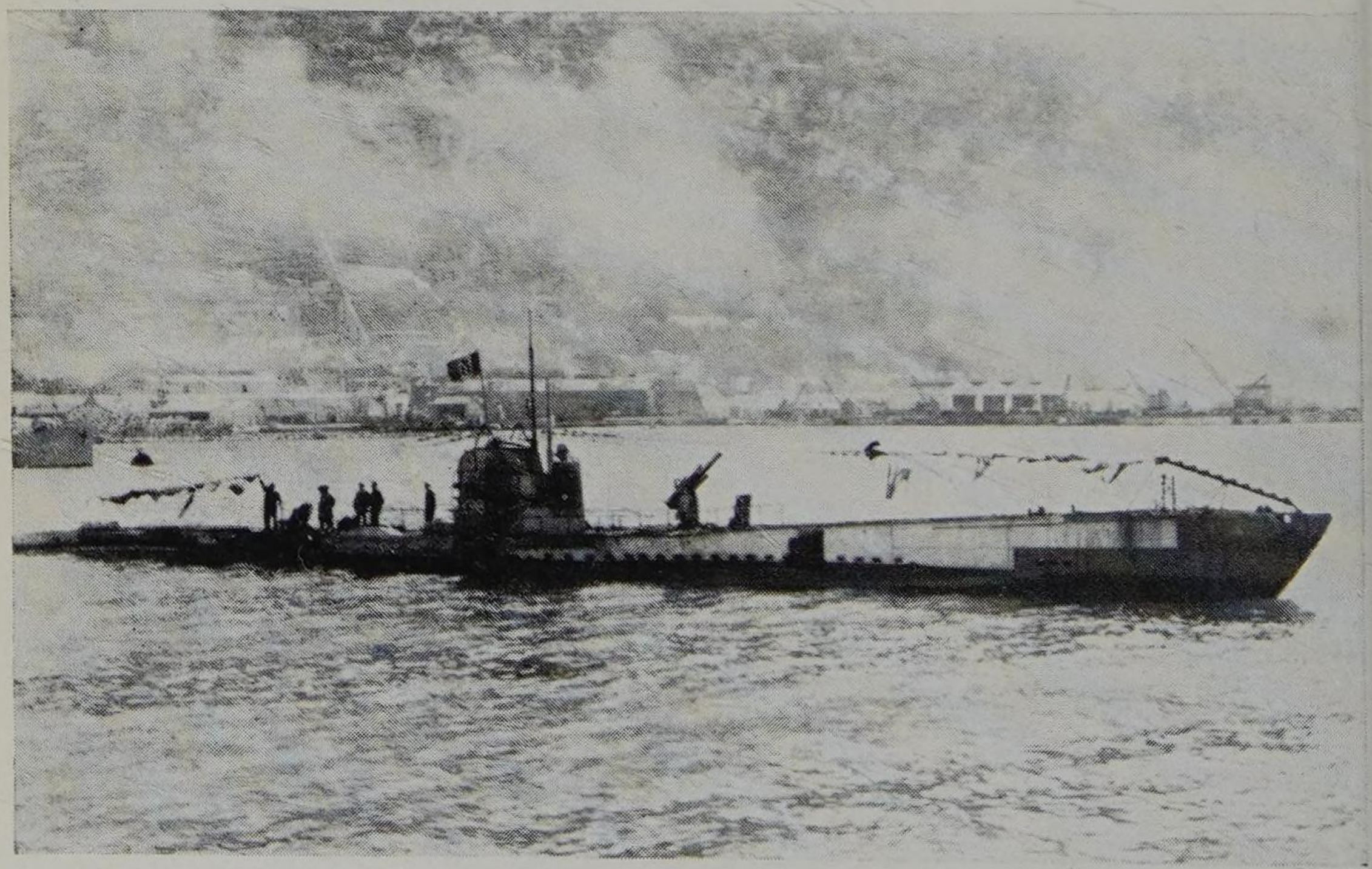
Displacement: 491/571 tons.
Dimensions: $185\frac{1}{4} \times 18\frac{3}{4} \times 12\frac{1}{2}$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 600/770 = 11·5/6·6 knots.
All other details as UC.80 class.

UC.90	19.1.18	13.11.18 interned, Karlskrona, 1.12.18 surrendered, to Japan as 04, 1921 scrapped, Kure.
UC.91	19.1.18	5.9.18 sunk in collision, Baltic, S.S. ALEXANDRA WOERMANN, 10.9.18 salved, re-commissioned, 10.2.19 lost by accident, North Sea, en route to surrender.
UC.92	19.1.18	24.11.18 surrendered, 1921 scrapped, Falmouth.
UC.93	19.2.18	26.11.18 surrendered, to Italy, 1919 scrapped La Spezia.
UC.94	19.2.18	26.11.18 surrendered, to Italy, 1919 scrapped, Taranto.
UC.95	19.2.18	22.11.18 surrendered, 1922 scrapped, Fareham.
UC.96	17.3.18	24.11.18 surrendered, 1919/20 scrapped, Morecambe.
UC.97	17.3.18	22.11.18 surrendered, to U.S.A., after display in various ports, 7.6.21 sunk as target, Lake Michigan, U.S.N. training ship WILLMETTE.
UC.98	17.3.18	24.11.18 surrendered, to Italy, 1919 scrapped, La Spezia.
UC.99	17.3.18	22.11.18 surrendered, to Japan as 05, 1921 scrapped, Sasebo.
UC.100	14.4.18	22.11.18 surrendered, to France, 1921 scrapped, Cherbourg.
UC.101	14.4.18	24.11.18 surrendered, 1922 scrapped, Dordrecht.
UC.102	17.4.18	22.11.18 surrendered, 1922 scrapped, Dordrecht.
UC.103	17.4.18	22.11.18 surrendered, to France, 1921 scrapped, Cherbourg.
UC.104	25.5.18	24.11.18 surrendered, to France, 1921 scrapped, Brest.
UC.105	25.5.18	22.11.18 surrendered, 1922 scrapped, Swansea.
UC.106	25.5.18	To U.K., 1921 scrapped, Felixstowe.
UC.107	2.6.18	To France, 1921 scrapped, Brest.
UC.108	2.6.18	To U.K., 1921 scrapped, Felixstowe.
UC.109	2.6.18	To U.K., 1921 scrapped, Felixstowe.
UC.110	6.7.18	To U.K., lost en route to Felixstowe for scrapping.
UC.111	6.7.18	To U.K., 1921 scrapped, Felixstowe.
UC.112	6.7.18	To U.K., 1921 scrapped, Felixstowe.
UC.113	6.7.18	To U.K., 1921 scrapped Newcastle on Tyne.
UC.114	11.8.18	To U.K., 1921 scrapped, Newcastle on Tyne.
UC.115 to UC.118		All launched 1918 but scrapped before completion.

Notes: Completed 1918, builders: Blohm & Voss, Hamburg. UC.106-UC.114 surrendered without machinery or torpedoes.



UC94 at Gibraltar under Italian flag. RN sloop of 24 (Racehorse) class in background.
[*P. A. Vicary*



UC98 under Italian flag in 1919.
[*P. A. Vicary*

UC.119 class UC.119-UC.138

Displacement: 511/582 tons.
Dimensions: $187\frac{1}{4} \times 18\frac{3}{4} \times 12\frac{1}{2}$ ft.
All other details as UC.80 class.

UC.119 to UC.124	Launched 1918 but scrapped before completion.
UC.125 to UC.138	Scrapped on stocks. Blohm & Voss, Hamburg.

UC.139 class UC.139-UC.152

Displacement: 474/564 tons.
Dimensions: $186\frac{1}{4} \times 18\frac{3}{4} \times 12\frac{1}{2}$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 580/770 = 11·5/6·6 knots.
All other details as UC.80 class.

UC.139 to UC.152	Cancelled. Danzig D.Y.

UC.153 class UC.153-UC.192

All details as UC.119 class.

UC.153 to UC.192	Cancelled. Blohm & Voss, Hamburg.

UD.1

Displacement: 3,800/4,500 tons approx.
Dimensions: 410 × 20 ft., approx.
Armament: 6—20 in. (4 bow, 2 stern) T.T., 2—5·9 in. (2 × 1), 2—3·4 in. (2 × 1) guns.

Projected design for large U boat cruisers to be built Kiel D.Y. Such material as was prepared, scrapped 1918.

UF Series UF.1-UF.92

Displacement: 364/381 tons.
Dimensions: $146\frac{1}{2} \times 14\frac{1}{2} \times 13$ ft.
Machinery: 2-shaft diesel/electric motors, B.H.P. 600/620 = 11/7 knots.
Armament: 5—20 in. (4 bow, 1 stern) T.T., 1—3·4 in. gun.

UF.1 to UF.20	F. Schichau, Elbing.
UF.21 to UF.32	J. C. Tecklenborg, Geestemünde.
UF.33 to UF.38	Atlaswerke, Bremen.
UF.39 to UF.44	Neptunwerft, Rostock.
UF.45 to UF.48	Seebeck, Geestemünde.
UF.49 to UF.60	J. C. Tecklenborg, Geestemünde.
UF.61 to UF.72	Seebeck, Geestemünde.
UF.73 to UF.76	Atlaswerke, Bremen.
UF.77 to UF.80	Neptunwerft, Rostock.
UF.81 to UF.92	F. Schichau, Elbing.

Notes: A few laid down 1918 by above builders and scrapped on stocks, rest cancelled.

Minelayer of UC80 class giving a good view of side torpedo tubes. [*Imperial War Museum*

PART 5 — MINELAYERS

Germany also paid great attention to minelaying. Light cruisers, destroyers and other craft could carry mines and were used for high speed minelaying operations, while the two minelaying cruisers ALBATROSS and NAUTILUS had been built for this purpose before the war. BRUMMER and BREMSE, completed during the war were a development of the concept of a fast minelayer cruiser.

In addition to regular warships, converted merchant ships were used as auxiliary minelayers, partly for reasons of expediency and partly in the hope that the minefields could be laid secretly, the ships relying on their appearance as disguise. For instance there would be nothing to excite suspicion in the appearance of either KÖNIGIN LUISE or METEOR in the North Sea, since they could well be merchant ships on their regular routes. Painting these ships in modified merchant colours rather then naval grey added to the deception.

Raiders also carried mines, so that minefields could be laid secretly in areas remote from Germany.

The UC series of submarines as well as the UE-I and UE-II types were also evolved as minelayers, in addition to their normal offensive roles.

Details of the raiders and submarines above will be found in the appropriate sections dealing with Raiders and Submarines.

MINELAYERS

Pelikan

Displacement: 2,400 tons.
Dimensions: $275\frac{1}{2} \times 39\frac{1}{2} \times 14\frac{1}{2}$ ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 3,000 = 15 knots. Coal fired.
Armament: 4—3·4 in. (4 × 1) guns, 300 mines.
Complement: 197.

PELIKAN	Wilhelmshaven	29.7.90	1921 scrapped.

Notes: Completed 1891. Mining instruction ship, 1914 coastal defence minelaying, 1917 training and experimental ship. Classed as Mine Transport.

Nautilus

Displacement: 1,950 tons.
Dimensions: 361 × 36 × $14\frac{3}{4}$ ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 6,600 = 20 knots. Coal fired.
Armament: 4—3·4 in. (4 × 1) guns, 200 mines.
Complement: 199.

NAUTILUS	A. G. Weser, Bremen	20.8.06	1928 scrapped, Copenhagen.

Notes: Completed 1907. 1909/10 refitted Kiel D.Y., 1914 cruiser minelayer and coastal defence, 21.3.19 stricken, depot ship at Kiel and Bremen, 1.1.23 as HULK 1, 26.2.23 as HULK A, 18.8.28 sold for scrapping. Of yacht like appearance with clipper bow and bowsprit.

Albatross

Displacement: 2,200 tons.
Dimensions: 361 × 36 × 14¾ ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 6,600 = 20 knots. Coal fired.
Armament: 4—3·4 in. (4 × 1) guns, 200 mines.
Complement: 199.

ALBATROSS	A. G. Weser, Bremen	23.10.07	1921, scrapped, Hamburg

Notes: Completed 1908. Mining school, 1910/11 refitted Kiel D.Y., 1914 cruiser minelayer, 2.7.15 driven ashore off Sweden by gunfire of Russian cruisers ADMIRAL MAKAROF, BAJAN, BOGATYR, OLEG, salved 1.10.15 interned Oscarshamn.

The minelayer NAUTILUS in Reval Harbour, August 1918. [*Imperial War Museum*

AUXILIARY MINELAYERS

Berlin

Tonnage: 17,324 grt.
Dimensions: 590 × 69 × 38 ft.
Machinery: 2-shaft Reciprocating (VTE) engines, N.H.P. 1,950 = 18 knots.
Armmaent: 6—4·1 in. (6 × 1) guns, 200 mines.

BERLIN	A. G. Weser, Bremen	Comp. 1908	1931 scrapped in Italy.

Notes: North German Lloyd liner. Converted as minelayer, 17.11.14 interned Trondheim, due to lack of fuel. After hostilities surrendered to U.K., 1921 ARABIC (White Star Line). It was probably one of her mines which sank the battleship AUDACIOUS.

Konigin Luise

Tonnage: 2,163 grt.
Dimensions: 276 × 39 × 21 ft.
Machinery: 2-shaft turbines, N.H.P. 846 = 21 knots.
Armament: 2 pom poms, 200 mines.

KÖNIGIN LUISE	A. G. Vulcan, Stettin	Comp. 1913	5.8.14 sunk by gunfire, R.N. light cruiser AMPHION and destroyers, North Sea off Orfordness.

Notes: Hamburg America liner. Sailed as minelayer 4.8.14. The first German warship to be sunk in W.W.I.

Meteor

Tonnage: 1,912 grt.
Dimensions: 280 × 37 × 17 ft.
Machinery: 1-shaft Reciprocating (VTE) engine, N.H.P. 460 = 14 knots.
Armament: 2—4·1 in. (2 × 1) guns, 375 mines.

METEOR ex-VIENNA	Ramage & Ferguson Ltd. Leith	Comp. 1903	9.8.15 scuttled to avoid capture by R.N. light cruiser squadron, 50 miles n.w. of Horns Reef

Notes: ex-VIENNA—Leith, Hull & Hamburg S.P. Co., Ltd., (J. Currie & Co.,) Leith. Taken over by Germany in German port at outbreak of war.

PART 6 — MINESWEEPERS

The M series minesweepers were the equivalent of the British Fleet Minesweepers, but could also be used for minelaying, carrying 30 or more mines.

The FM class were shallow draught minesweepers which proved to be somewhat unstable, while their low fuel capacity gave them a restricted area of operations.

In 1914 minesweeping was carried out by the older torpedo boats of the T series. From the end of 1915 the M class of minesweepers came into service and later the shallow draught FM vessels and the motor craft of the F and UZ types.

The need for minesweeping did not end with the Armistice and several vessels already under construction were completed, while operations continued for several years to clear the considerable minefields which had been laid.

In the following section the careers have been continued of those minesweepers which passed into other navies. Those listed as sold were mainly converted for merchant use.

MINESWEEPERS

M1 class M1-M6

Displacement: 425 tons.
Dimensions: 181 × 24 × 6½ ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 1,400 = 16½ knots. Coal/oil fired.
Armament: 1—3·4 in., 1—37 mm. guns. Later 2—3·4 in. (2 × 1). 30 mines.
Complement: 40

M1	Seebeck, Geestemünde	26.5.15	17.3.20 stricken, 1922 scrapped, Wilhelmshaven.
M2	,,	3.6.15	24.10.21 stricken, 1922 sold.
M3	,,	19.9.15	,, ,,
M4	,,	19.9.15	,, ,,
M5	,,	19.9.15	,, ,,
M6	,,	19.9.15	31.7.18 mined and sunk, North Sea.

Completed 1915.

M7 class M7-M26

Displacement: 450 tons.
Dimensions: 185 × 24 × 6½ ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 1,600 = 16½ knots.
Armament: As M1 class.
Complement: 40.

M7	A. G. Neptun, Rostock	15	28.6.22 sold.
M8	,,	18. 6.15	28.6.22 sold.
M9	,,	15	18.6.17 mined and sunk, North Sea.
M10	,,	15	17.3.20 stricken, sold.
M11	,,	21. 7.15	28.12.17 mined and sunk, North Sea.
M12	,,	27. 7.15	27.7.16 mined and sunk, North Sea.
M13	Nordseewerke, Emden	26. 5.15	17.3.20 stricken, sold.
M14	,,	21.11.15	16.5.17 mined and sunk, North Sea.
M15	Seebeck, Geestemünde	19. 9.15	30.3.17 mined and sunk, North Sea.
M16	,,	14.11.15	21.3.17 mined and sunk, North Sea.
M17	,,	19.12.15	17.3.21 stricken, sold.
M18	A. G. Neptun, Rostock	25. 8.15	13.7.20 stricken, 1922 scrapped Wilhelmshaven.
M19	,,	10. 9.15	13.7.21 stricken, 1922 scrapped Wilhelmshaven.
M20	,,	30. 9.15	13.7.21 stricken, sold.
M21	Frerichs & Co., Einswarden	10.15	17.3.20 stricken, 1922 scrapped Wilhelmshaven.
M22	,,	12.15	14.10.18 mined and sunk, North Sea.
M23	J. C. Tecklenborg, Geestemünde	29. 7.15	4.6.17 mined and sunk, North Sea.
M24	,,	11. 8.15	16.3.17 mined and sunk, North Sea.
M25	,,	28. 8.15	13.7.21 stricken, 1922 scrapped Wilhelmshaven.
M26	,.	9. 9.15	21.3.17 mined and sunk, North Sea.

Completed 1915/16.

M27 class M27-M44

Displacement: 480 tons.
Dimensions: $191\frac{1}{2} \times 24 \times 7\frac{1}{4}$ ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 1,800 = $16\frac{1}{2}$ knots. Coal/oil fired.
Armament: M27-42 2—4·1 in. (2 × 1) guns. M43-44 3—3·4 in. (3 × 1) guns. 30 mines.
Complement: 40.

M27	A. G. Neptun, Rostock	15.4.16	11.8.16 sunk in collision, Baltic S.S. PARANAGUA.
M28	,,	6.5.16	1945 to U.S.A.

M29	,,	27.5.16	24.10.21 stricken, sold.
M30	,,	17.6.16	24.10.21 stricken, sold.
M31	Seebeck, Geestemünde	30.4.16	7.10.17 mined and sunk, Baltic.
M32	,,	14.5.16	17.3.20 stricken, 1922 scrapped.
M33	,,	25.6.16	17.3.20 stricken, scrapped.
M34	,,	25.6.16	17.3.20 stricken, scrapped.
M35	J. C. Tecklenborg, Geestemünde	18.5.16	24.10.21 stricken, 1922 scrapped.
M36	,,	3.6.16	23.3.18 mined and sunk, North sea.
M37	,,	24.6.16	17.3.20 stricken, 1922 scrapped, Wilhelmshaven.
M38	,,	13.7.16	20.2.22 stricken, scrapped.
M39	Bremer Vulcan, Vegesack	27.5.16	20.4.18 mined and sunk, North Sea.
M40	,,	15.6.16	23.3.18 mined and sunk, North Sea.
M41	,,	5.8.16	7.9.18 mined and sunk, North Sea.
M42	,,	11.8.16	17.3.20 stricken, sold.
M43	Atlaswerke, Bremen	7.5.16	24.10.21 stricken, scrapped.
M44	,,	4.6.16	24.10.21 stricken, sold.

Notes: Completed 1916.
M28 11.3.29 mining experimental ship PELIKAN, 1940—M538.

M45 class M45-M56

Displacement: 486 tons.
Armament: 3—3·4 in. (3 × 1) guns. 30 mines.
All other details as M27 class.

M45	A. G. Neptun, Rostock	8. 7.16	24.10.21 stricken, sold.
M46	,,	19. 8.16	1.12.22 stricken.
M47	,,	19. 8.16	8.6.17 mined and sunk, North Sea.
M48	,,	9. 9.16	24.10.21 stricken, sold, 1952 scrapped.
M49	,,	30. 9.16	7.5.17 mined and sunk, North Sea.
M50	Seebeck, Geestemünde	19. 8.16	15.6.44 Bombed and sunk, Boulogne.
M51	,,	10. 9.16	24.10.21 stricken, sold, 1937 scrapped.
M52	,,	22.11.16	24.10.21 stricken, sold, 1937 scrapped.
M53	,,	22.11.16	24.10.21 stricken, sold, 1937 scrapped.
M54	Bremer Vulcan, Vegesack	14. 9.16	13.7.21 stricken, sold.
M55	,,	7.10.16	19.11.17 wrecked off Schleswig coast.
M56	,,	4.11.16	9.2.17 mined and sunk, North Sea

Notes: Completed 1916.
M50 19.2.38 Depot ship for Raumboote (motor launches) BROMMY, 1940—M550.

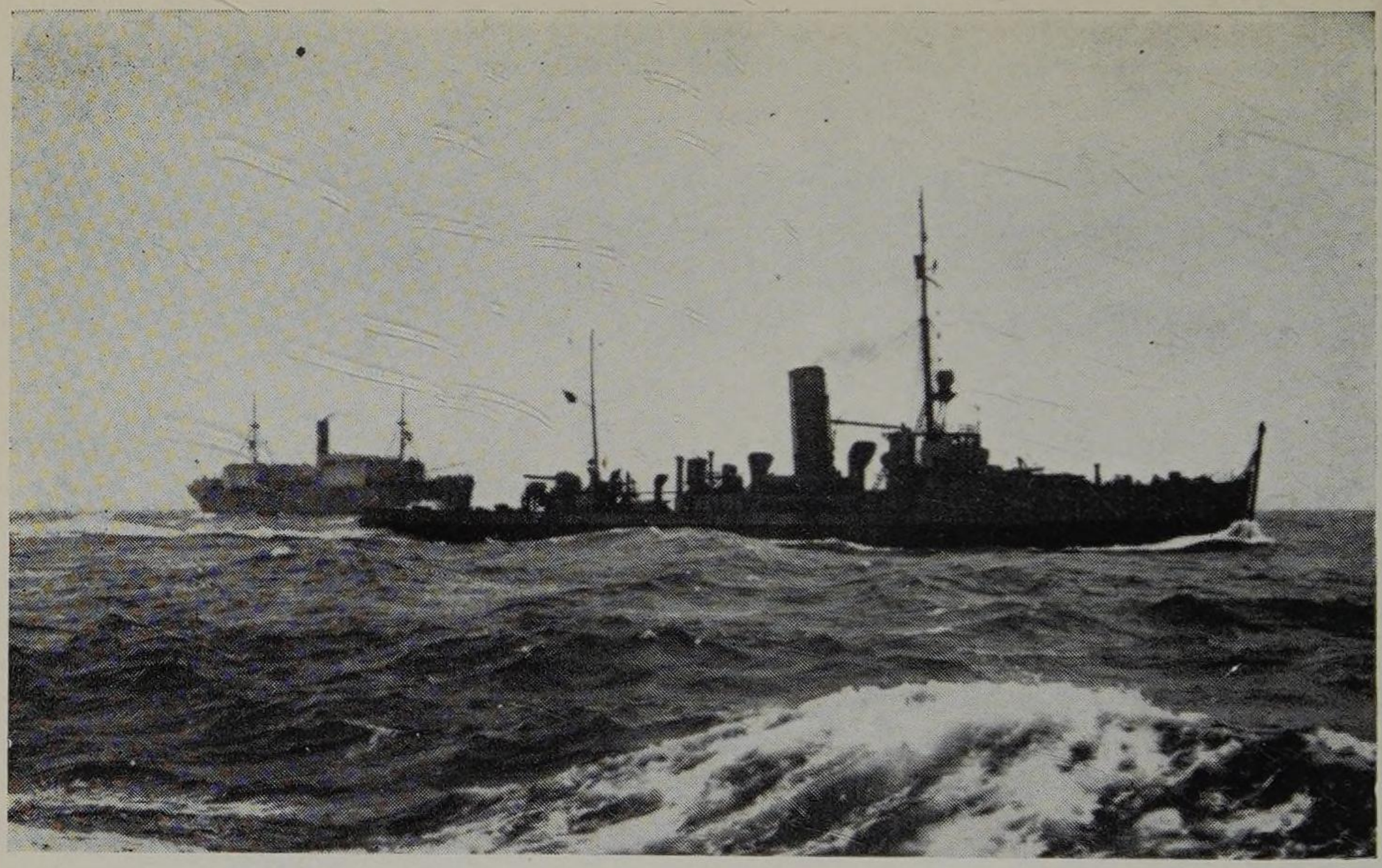
M48 sold 1922 to Argentina			MARIA,	M1, 1936 BATHURST.
M51	,,	,,	MARTHA,	M2, FOURNIER.
M52	,,	,,	MARGA,	M3, JORGE.
M53	,,	,,	MINNA,	M4, KING.

M57 class M57-M70

Displacement: 500 tons.
Dimensions: $194\frac{1}{2} \times 24\frac{1}{2} \times 7\frac{1}{4}$ ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 1,850 = 16 knots. Coal/oil fired.
Armament: M57-66 2—4·1 in. (2 × 1) guns, M67-70 2—3·4 in. (2 × 1) guns 30 mines.
Complement: 40.

M57	Seebeck, Geestemünde	1. 7.17	1.12.22 stricken, accommodation ship, Kiel.
M58	,,	4. 8.17	13.7.21 stricken, 1922 scrapped Wilhelmshaven.
M59	,,	31.10.17	24.10.21 stricken, 1940 to Russia.
M60	,,	28.11.17	1946 to Russia.
M61	,,	13. 4.18	26.7.40 mined and sunk off Dutch coast.
M62	,,	13. 4.18	9.8.18 mined and sunk, North Sea.
M63	J.C. Tecklenborg, Geestemünde.	27. 3.17	28.6.17 mined and sunk, North Sea.
M64	,,	21. 4.17	20.4.18 mined and sunk, North Sea.
M65	,,	12. 5.17	13.7.21 stricken, 1922 scrapped Wilhelmshaven.
M66	,,	2. 6.17	1945 to U.S.A.
M67	A. G. Neptun, Rostock	30. 6.17	25.4.18 mined and sunk, North Sea.
M68	,,	25. 7.17	1940 to Russia.
M69	,,	16. 8.17	24.10.21 stricken, 1922 sold.
M70	,,	28. 9.17	23.6.21 stricken, 1922 sold.

Notes: Completed 1917/18. M59 1922 sold Lithuania as Patrol Ship PRESIDENT SMETONA, later ANTANAS SMETONA. M60 1937 Fleet Tender HECHT, 1939 motor launch depot ship HILLE, 1940 M560. M66 1937 Experimental ship STÖRTEBEKER, 1940 M566. M68 29.10.17 mined and sunk Baltic, 1920 raised, to Latvia as VIRSAITIS.



M class minesweeper with converted merchant ship seaplane carrier in background.
[*Imperial War Museum*

M134 shown as FRAUENLOB between the wars. She survived the second war although badly damaged by bombing.
[*National Maritime Museum*

M71 class M71-M86

Displacement: 515 tons.
Armament: M71-74 2—3·4 in. (2 × 1) guns.
M75-84 3—3·4 in. (3 × 1) guns.
M85-86 2—3·4 in. (2 × 1) guns.
All other details as M57 class.

M71	Bremer Vulcan, Vegesack	11.1. 18	24.10.21 stricken, sold.
M72	,,	20. 2.18	1945 to U.S.A.
M73	,,	20. 2.18	24.10.21 stricken, sold.
M74	,,	26.4. 18	1938 scrapped.
M75	J. C. Tecklenborg, Geestemünde	21. 7.17	2.3.45 lost by capsizing, The Sound.
M76	,,	15. 8.17	13.7.21 stricken, sold.
M77	,,	4. 9.17	,, ,,
M78	,,	20.11.17	,, ,,
M79	Seebeck, Geestemünde	15. 1.19	1951 scrapped.
M80	,,	15. 1.19	1937 scrapped.
M81	,,	8. 9.19	1945 to U.S.A.
M82	,,	8. 9.19	1955 scrapped Bremerhaven.
M83	Nordseewerke, Emden	19. 9.17	1.7.18 mined and sunk, North Sea.
M84	,,	10.10.17	3.11.44 mined and sunk, Kattegat.
M85	,,	10. 4.18	1.10.39 mined and sunk n. of Heisternest.
M86	,,	11.10.17	13.7.21 stricken, scrapped Kiel.

Notes: Completed 1917/19. M72 1940—M572. M74 24.10.21 stricken, sold Argentina as META, M5, MURATURE. M75 1940—M575. M79 as M74 but MELITA, M6, PINEDO. M80 as M74 but MARGOT, M7, PY. M81 11.3.29 Experimental ship NAUTILUS, 1940—M581. M82 11.3.29 Fleet Tender JAGD, 1940—M582, 1945 to U.S.A. M84 1940—M584.

M87 class M87-M96

Displacement: 590 tons.
Armament: 2—3·4 in (2 × 1) guns.
All other details as M57 class.

M87	J. C. Tecklenborg, Geestemünde	30.10.17	13.7.21 stricken sold.
M88	,,	26. 9.17	,, ,,
M89	,,	11.12.17	26.7.40 mined and sunk off Dutch coast.

M90	,,	29.12.17	1946 scrapped.
M91	A. G. Neptun, Rostock	1.11.17	10.3.18 mined and sunk, North Sea.
M92	,,	8.12.17	1.7.18 mined and sunk, North Sea.
M93	,,	18. 1.18	24.10.21 stricken, sold.
M94	,,	20. 2.18	17.3.21 stricken, sold.
M95	Atlaswerke, Bremen	21.12.17	20.4.18 mined and sunk, North Sea.
M96	,,	22. 2.18	1922 scrapped.

Notes: Completed 1917/18. M90 24.10.21 stricken, sold Argentina as MARIANNE, M8, SEGUI. M96 Hospital ship, Stettin, 15.3.22 sunk in Kapp Putsch, 21.8.22 raised.

M97 class M97-M176

Displacement: 525/610 tons.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 1,850/1,860 = 15/16 knots. Coal/oil fired.
Armament: 2—4·1 in. (2 × 1) guns.
All other details as M57 class.

M97	J. C. Tecklenborg, Geestemünde	28. 3.18	1962 scrapped.
M98	,,	16. 4.18	1945 to U.S.A.
M99	,,	8. 5.18	24.10.21 stricken, sold.
M100	,,	23. 5.18	6.11.42 bombed and sunk, Benghazi.
M101	Atlaswerke, Bremen	20. 4.18	1952 scrapped.
M102	,,	1. 6.18	1949 scrapped, Ghent.
M103	A. G. Neptun, Rostock	27. 3.18	24.10.21 stricken, sold.
M104	,,	27. 4.18	9.4.45 bombed and sunk, Kiel.
M105	Reiherstieg Schiffswerfte, Hamburg	6. 7.18	
M106	,,	8. 7.18	10.7.43 sunk, air attack, Augusta, Sicily.
M107	J. C. Tecklenborg, Geestemünde	3. 7.18	15.6.44 sunk, air attack, Boulogne.
M108	,,	17. 7.18	1945 to Russia.
M109	,,	7. 8.18	1945 to U.S.A.
M110	,,	27. 8.18	1950 scrapped, Ghent.
M111	,,	17. 9.18	3.11.41 mined and sunk off Kolberg.
M112	,,	12.11.18	1948 raised and scrapped.

M113	H. C. Stülcken Sohn, Hamburg	27. 5.19	1945 to U.S.A.
M114	,,	29. 8.20	24.6.19 stricken, sold.
M115	Atlaswerke Bremen	12. 7.18	22.5.44 mined and sunk w. of Fehmarn.
M116	,,	10. 8.18	1920 hulked, accommodation and detention ship.
M117	,,	20. 9.18	1945 to U.S.A.
M118	,,	12.10.18	13.7.21 stricken, 1922 sold.
M119	A. G. Neptun, Rostock	22. 6.18	1945 scrapped.
M120	,,	24. 7.18	
M121	,,	10. 9.18	30.1.43 sunk in air attack, Bizerta.
M122	,,	21. 9.18	Scrapped.
M123	G. Seebeck, Geestemünde	—	Cancelled.
M124	,,	—	Cancelled.
M125	Flensburger Schiffbau Ges., Flensburg.	26.10.18	1920 hulked, accommodation and detention ship.
M126	,,	21.12.18	1945 to U.S.A.
M127	Union-Giesserei, Königsberg	—	Cancelled.
M128	,,	—	Cancelled.
M129	Reiherstieg Schiffswerfte, Hamburg	15. 1.19	2.12.41 mined and sunk off Kolberg.
M130	,,	13. 2.19	1946 to Russia.
M131	,,	7. 6.19	24.6.19 stricken, sold.
M132	,,	14. 1.19	13.11.39 stranded, North Sea.
M133	Frerichs & Co., Einswarden	19	9.5.42 sunk in collision off Boulogne, with R45.
M134	,,	28. 7.19	1945 to U.S.A.
M135	,,	15. 3.19	Scrapped.
M136	,,	19	26.7.40 mined and sunk off Dutch coast.
M137	J. C. Tecklenborg, Geestemünde	15. 1.19	5.7.21 stricken, sold.
M138	,,	17. 2.19	21.6.44 damaged by bombing, and scuttled, Königsberg.
M139	,,	5.19	24.6.19 stricken, sold.
M140	,,	15. 4.19	24.6.19 stricken, sold.
M141	H. C. Stülcken Sohn, Hamburg	—	Cancelled.
M142	,,	—	,,

M143	,,	—	,,
M144	A. G. Neptun, Rostock	19. 3.19	19.1.43 sunk by aerial torpedoes, Djerba.
M145	,,	22. 5.19	1945 to U.S.A.
M146	Flensburger Schiffbau Ges., Flensburg	21.12.18	17.6.44 bombed and sunk off Boulogne.
M147	,,	20	24.6.19 stricken, sold.
M148	,,	—	Cancelled.
M149	,,	—	,,
M150	Hansawerft, Tönning	20	24.6.19 stricken, 1920 sold.
M151	,,	20	,, ,,
M152	,,	20	,, ,,
M153	Frerichs & Co., Einswarden	—	Cancelled.
M154	,,	—	,,
M155	,,	—	,,
M156	,,	—	,,
M157	Nordseewerke, Emden	9. 4.19	23.12.41 foundered off Rugen.
M158	,,	20	24.6.19 stricken, sold.
M159	Union-Geisserei, Königsberg		all following ships either scrapped before launching, or cancelled.
M160	,,		
M161	Reihersteig Schiffswerfte, Hamburg.		
M162	,,	,,	
M163	J. C. Tecklenborg, Geestemünde.		
M164	,,	,,	
M165	,,	,,	
M166	,,	,,	
M167	Frerichs & Co., Einswarden.		
M168	,,	,,	
M169	'Unterweser' Schiffbau Ges., Lehe.		
M170	,,	,,	
M171	Henry Koch, Schiffswerft, Lübeck,		
M172	,,	,,	
M173	Janssen & Schmilinski, Hamburg.		
M174	,,	,,	
M175	Nüscke & Co., A.G., Stettin.		
M176	,,	,,	

Notes:

M97 24.10.21 stricken, sold Yugoslavia as minelayer ORAO, 4.41 taken over by Italy, VERGADA, 7.12.43 refitted Malta, returned Yugoslavia as ORAO, 1945 PIONIR, 1955 ZELENGORA.

M98 1940—M598.

M100 3.3.21 stricken, sold to Yugoslavia as GALEB, 1941 taken over by Italy as SELVE.
M101 13.7.21 stricken, sold Argentina as MARGARITA, M9, THORNE, 1949 PETREL.
M102 1940—M502.
M104 1940—M504.
M105 9.2.22 stricken, sold Argentina as MECHA, M10, 1935 Admiralty Yacht GOLONDRINA.
M106 24.10.21 stricken, sold Yugoslavia as GAVRAN, 1923 LABUD, 21.4.41 taken over by Italy as ORIOLE.
M107 1939 motor minesweeper depot ship VON DER GRÖBEN, 1940—M507
M108 26.2.28 gunnery training ship DELPHIN, 1940—M508.
M109 1938 experimental vessel JOHANN WITTENBORG, 1939 SUNDEWALL, 1940—M509.
M110 1940—M510.
M111 1940—M511.
M112 24.10.21 stricken, sold to Yugoslavia as JASTREB, 17.4.41 taken over by Italy as ZIRONA, 25.11.41 attacked by aircraft Benghazi, beached, 18.11.42 scuttled on evacuation.
M113 20.6.36 submarine tender ACHERON, 1940—M513.
M115 1.10.35 experimental vessel ARKONA, 1940—M515.
M117 1940—M517.
M119 9.3.21 stricken, to Italy as minesweeper METEOR, 1927 VIESTI, 1944 scuttled on evacuation of Naples.
M120 9.3.21 stricken, to Italy as m/s ABASTRO, 1927 CROTONE, 9.9.43 taken over by Germany, 5.44 damaged in air attack La Spezia, beached. 1944 salved, repaired, Italian training ship GARAVENTO.
M121 13.7.21 stricken, sold Yugoslavia as KOBAC, 10.4.41 taken over by Italy as UNIE.
M122 1940—M522, 20.3.45 sunk by bombing, Kiel, raised, repaired.
M126 1939 motor minesweeper depot ship ALDERS, 1940—M526.
M129 1938 experimental vessel OTTO BRAUN, 1940—M529.
M130 12.5.28 training ship FUCHS, 1940—M530.
M133 11.3.28 tender WACHT, 1940—M533.
M134 11.3.28 tender FRAUENLOB, 1938 motor minesweeper depot ship JUNGINGEN, 1940—M534, 4.41 bombed, Bergen, salved, 27.9.43 paid off.
M135 5.2.23 fleet tender HELA, 1938 GAZELLE, 1940—M535, 1945 to Russia as WENTA, 1949 DENSA—B245.
M136 1939 submarine tender HAVEL.
M138 1928 fishery protection vessel ZIETEN, 1939 motor minesweeper depot ship NETTLEBECK, 1940—M538.
M144 17.6.21 sold to Yugoslavia as SOKOL, 4.41 taken over by Italy as ESO.
M145 1940—M545.
M146 26.8.33 fleet tender TAKU, 1939 motor minesweeper depot ship VON DER LIPPE, 1940—M546.

MINESWEEPERS—FM SERIES

FM—Flachgehende Minensuchboot
Shallow water minesweepers.

FM1-FM36

Displacement: 170 tons.
Dimensions: 141 × 19¾ × 4¾ ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 600 = 14 knots.
Coal fired.
Armament: 1—3·4 in. gun.

FM 1	Seebeck, Geestemünde.
FM 2	,, ,,
FM 3	J. C. Tecklenborg, Geestemünde.
FM 4	,, ,,
FM 5	Frerichs & Co., Einswarden.
FM 6	,, ,,
FM 7	,, ,,
FM 8	H. C. Stulcken Sohn, Hamburg.
FM 9	,, ,,
FM10	,, ,,
FM11	Gebrüder Sachsenberg, Rosslau (Elbe).
FM12	,, ,,
FM13	Union-Giesserei, Königsberg.
FM14	,, ,,
FM15	Dresdener Maschinen-Fabrik & Schiffswert "Ubigau".
FM16	,, ,,
FM17	Jos. L. Meyer, Papenburg.
FM18	,, ,,
FM19	J. C. Tecklenborg, Geestemünde.
FM20	,, ,,
FM21	Seebeck, Geestemünde.
FM22	,, ,,
FM23	Frerichs & Co., Einswarden.
FM24	,, ,,
FM25	Schiffbau-Ges., "Unterweser", Lehe.
FM26	,, ,,
FM27	Ceasar Wollheim, Breslau.
FM28	,, ,,
FM29	Nobiskrug-Werft, Rendsburg.
FM30	Lübecker Maschinenbau-Ges., Lübeck.
FM31	,, ,,
FM32	Gebrüder Sachsenberg, Rosslau (Elbe).
FM33	Nordseewerke, Emden.
FM34	,, ,,
FM35	Union-Giesserei, Königsberg.
FM36	Oderwerke, Stettin.

Notes: All launched and completed 1918/19 by above builders.

FM 2 1920 to Poland as JASKOLKA, 1935 stricken.
FM27 1920 to Poland as CZAIKA.
FM28 1920 to Poland as RYBITWA.
FM31 1920 to Poland as MEWA, 1934 POMORZANIN, 1.9.39 sunk, Jastarnia?
FM16 to Albania as gunboat SQUIPNIA, until 1935.
FM19 1922 after rebuilding to Portugal as fisheries protection vessel RAOUL CASCAES, 1936 stricken.
FM23 to Albania as gunboat SQENDERBERE, until 1935.
FM24 1922 to Persia as gunboat FATIYA, 1926 PAHLAVI, 1935 SHAHIN, 1941 scrapped.

From 1919 onwards rest were sold, some for breaking, many for conversion to merchant use.

FM37-FM66

Displacement: 185 tons.
Dimensions: $149\frac{1}{4} \times 19\frac{3}{4} \times 4\frac{3}{4}$ ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 750 = 14·3 knots. Coal fired.
Armament: 1—3·4 in. gun.

FM37 to FM41	Schiffbau-Ges. "Unterweser", Lehe.
FM42 to FM44	Rickmers Reismühlen & Schiffbau—A.G., Geestemünde.
FM45 to FM47	Schiffswerft von Henry Koch, Lübeck.
FM48 to FM50	Jos. L. Meyer, Papenburg.
FM51 to FM53	Janssen & Schmilinski, Hamburg.
FM54	D. W. Kremer Sohn, Elmshorn.
FM55	" "
FM56	Caesar Wollheim, Breslau.
FM57	" "
FM58	Dresdener Maschinen-Fabrik & Schiffswerft "Ubigau".
FM59	" "
FM60	Nobiskrug-Werft, Rendsburg.
FM61	" "
FM62	Thormählen, Elmshorn.

FM63	Klawitter, Danzig.
FM64	,, ,,
FM65	Nüscke & Co., A.G., Stettin.
FM66	,, ,,

Notes: All laid down 1918 by above builders. FM39, FM40, FM41, FM43, FM44-FM47, FM51-FM53, FM58-FM61, FM63-FM66 scrapped before completion. All others sold 1919 onwards for conversion to merchant service.

Trawler Minesweepers

In common with other belligerents Germany built about 100 of these to a broad general specification by small builders. About 30 of these were war losses and at the end of hostilities the remainder were sold, mostly to German trawler owners.

PART 7 — COASTAL FORCES

F SERIES—MOTOR LAUNCHES/ MINESWEEPERS

F—Flachgehende Minen Raumboot—shallow draught minesweepers.

F1-F15

Displacement: 18 tons.
Dimensions: 54 × 13 × 3½ ft.
Machinery: 2-shaft petrol engines, B.H.P. 120 = 10 knots.
Armament: 1—18 in (deck) T.T., 6 mines.

F 1 to F 4	H. Heidtmann, Hamburg.
F 5 to F 8	Naglo-Werft, Zeuthen bei Berlin.
F 9 to F11	von Hacht.
F12	C. Waap, Kiel-Heikendorf.
F13	von Hacht.
F14	von Hacht.
F15	H. Heidtmann, Hamburg.

Notes: Completed 1915 by above builders. F9 4.10.18 sunk North Sea, but salved. All sold 1920, mostly for conversion.

F16-F75

Displacement: 19 tons.
Dimensions: $57\frac{1}{4} \times 13 \times 2\frac{1}{2}$ ft.
Machinery: 2-shaft petrol engines, B.H.P. 120/130 = 10/11 knots.
Armament: 1—18 in. (deck) T.T., 6 mines.

F16 to F19	Lürssen, Vegesack.
F20 to F23	H. Heidtmann, Hamburg.
F24 to F27	von Hacht.
F28 to F30	Havighorst.
F31	D. W. Kremer Sohn, Elmshorn.
F32 to F34	Oltmann,
F35	Max Oertz, Hamburg.
F36	,,
F37	Abeking & Rasmussen, Lemwerder.
F38	,, ,,
F39	Schlichting-Werft, Travemunde.
F40	Havighorst.
F41	,,
F42	Kremer Sohn.
F43	,,
F44	C. Waap, Kiel-Heikendorf.
F45	,, ,,
F46	H. Heidtmann, Hamburg.
F47	,, ,,
F48 to F51	von Hacht.
F52 to F54	Roland-Werft Vertens & Co., Hemelingen.
F55	Lürssen, Vegesack.
F56 to F59	Abeking & Rasmussen, Lemwerder.
F60 to F62	Oltmann.

F63	Schuldt.
F64 to F65	von Hacht.
F66	Havighorst.
F67	,,
F68	Oltmann.
F69	Schuldt.
F70	,,
F71	Oltmann.
F72	Lürssen, Vegesack.
F73	,,
F74	D. W. Kremer Sohn, Elmshorn.
F75	,, ,,

Notes: Completed 1917/18. F16, 18, 19, 29, 30, 33, 35, 36, 40, 48, 56, 57, became Belgian V1, V2, V3, V4, V5, V6, V7, V8, V9, V10, V11, V12, all discarded 1927. F32 29.3.18 mined and sunk, North Sea. From 1920 onwards others converted to police or harbour service, sold, or scrapped.

UZ SERIES—MOTOR ANTI-SUBMARINE BOATS/MINESWEEPERS

UZ—U-boat Zerstorer—Submarine destroyer.

UZ1A-UZ12A

Displacement: 27 tons.
Dimensions: $57\frac{1}{2}/70\frac{3}{4} \times 10\frac{1}{2}/13 \times 3/4$ ft.
Machinery: 2-shaft petrol engines, B.H.P. 120/360 = 10/17·4 knots.
Armament: 1 m.g.

LÜRSSEN (UZ1A)	Lürssen, Vegesack.
UZ2A	,, ,,
UZ3A	,, ,,
NAGLO II (UZ4A)	Naglo-Werft, Zeuthen bei Berlin.
NAGLO III (UZ5A)	,, ,,
HAVELWERFT (UZ6A)	Havelwerft, Potsdam.
UZ7A	H. Heidtmann, Hamburg.
HEIDTMANN I (UZ8A)	
ROLAND I	,, ,, Roland-Werft Vertens & Co., Hemlingen.

(UZ9A)	
ROLAND II (UZ10A)	,, ,,
WAAP I (UZ11A)	C. Waap, Kiel-Heikendorf.
WAAP II (UZ12A)	,, ,,

Notes: Completed 1916/17. From 1.11.17 names discarded, numbers only retained.

UZ1-UZ22

Displacement: 40/44 tons.
Dimensions: $85\frac{3}{4}/90\frac{1}{4} \times 12\frac{3}{4}/14 \times 3\frac{1}{2}/4$ ft.
Machinery: 2-shaft (UZ11 only—3) petrol engines, B.H.P. 420/640 = 14/15 knots.
Armament: 1—4 pdr. gun.

UZ1 to UZ4	Lürssen, Vegesack.
UZ5 to UZ8	H. Heidtmann, Hamburg.
UZ9 to UZ10	Max Oertz, Hamburg.
UZ11 to UZ13	Abeking & Rasmussen, Lemwerder.
UZ14 to UZ17	Naglo-Werft, Zeuthen bei Berlin.
UZ18 to UZ20	Roland-Werft Vertens & Co., Hemelingen.
UZ21	C. Waap, Kiel-Heikendorf.
UZ22	

Notes: Completed 1916/17.

UZ23-UZ35

Displacement: 60 tons.
Dimensions: $101 \times 14\frac{1}{2} \times 4\frac{1}{4}$ft.
Machinery: 2-shaft petrol engines, B.H.P. 500 = $14\frac{1}{2}$ knots.
Armament: 1—4 pdr. gun.

UZ23	H. Heidtmann, Hamburg
UZ24	,, ,,
UZ25	Max Oertz, Hamburg.
UZ26	,, ,,
UZ27	Lürssen, Vegesack.
UZ28	,, ,,
UZ29	Abeking & Rasmussen, Lemwerder.
UZ30	,, ,, ,,
UZ31	,, ,, ,,
UZ32	Roland-Werft Vertens & Co., Hemelingen.
UZ33	,, ,, ,,
UZ34	C. Waap, Kiel-Heikendorf.
UZ35	,, ,,

Notes: Completed 1917/18. A few UZ boats were retained after the war in the Navy, the rest were either sold for police, harbour or pleasure craft, or scrapped.

FL SERIES—REMOTE CONTROL EXPLOSIVE MOTOR BOATS

FL—Fern-Lenkboote—Remote controlled boat

FL1-FL17

Displacement: 6 tons.
Dimensions: $42\frac{3}{4} \times 6 \times 2\frac{1}{4}$ ft.
Machinery: 2-shaft petrol engines, B.H.P. 400/420 = 30 knots.
Armament: As explosive boat = 1,750 lbs. explosive.

FL1 to F.17	Lürssen, Vegesack.

Notes: Completed 1915/16. These boats carried an explosive charge in the bows fused to explode on impact. On operations the motors were started and the crew left. Between 30/50 miles of electric cable connected to the boat's steering and control gear was unreeled as the boat proceeded. The end was connected to a directing station and a seaplane sent W/T instructions on course and speed to be maintained to hit target.
FL3, 4, 5, 7, 8, 12, 14, war losses.
1917 renumbered as follows:—

FL1—L26	FL10—L20	FL17—L23
FL2—L27	FL11—L22	
FL6—L28	FL13—L21	
FL9—L24	FL15—L25	

In 1918 reverted to original numbers and used for training and experimental work, subsequently sold or scrapped.

LM SERIES—MOTOR TORPEDO BOATS

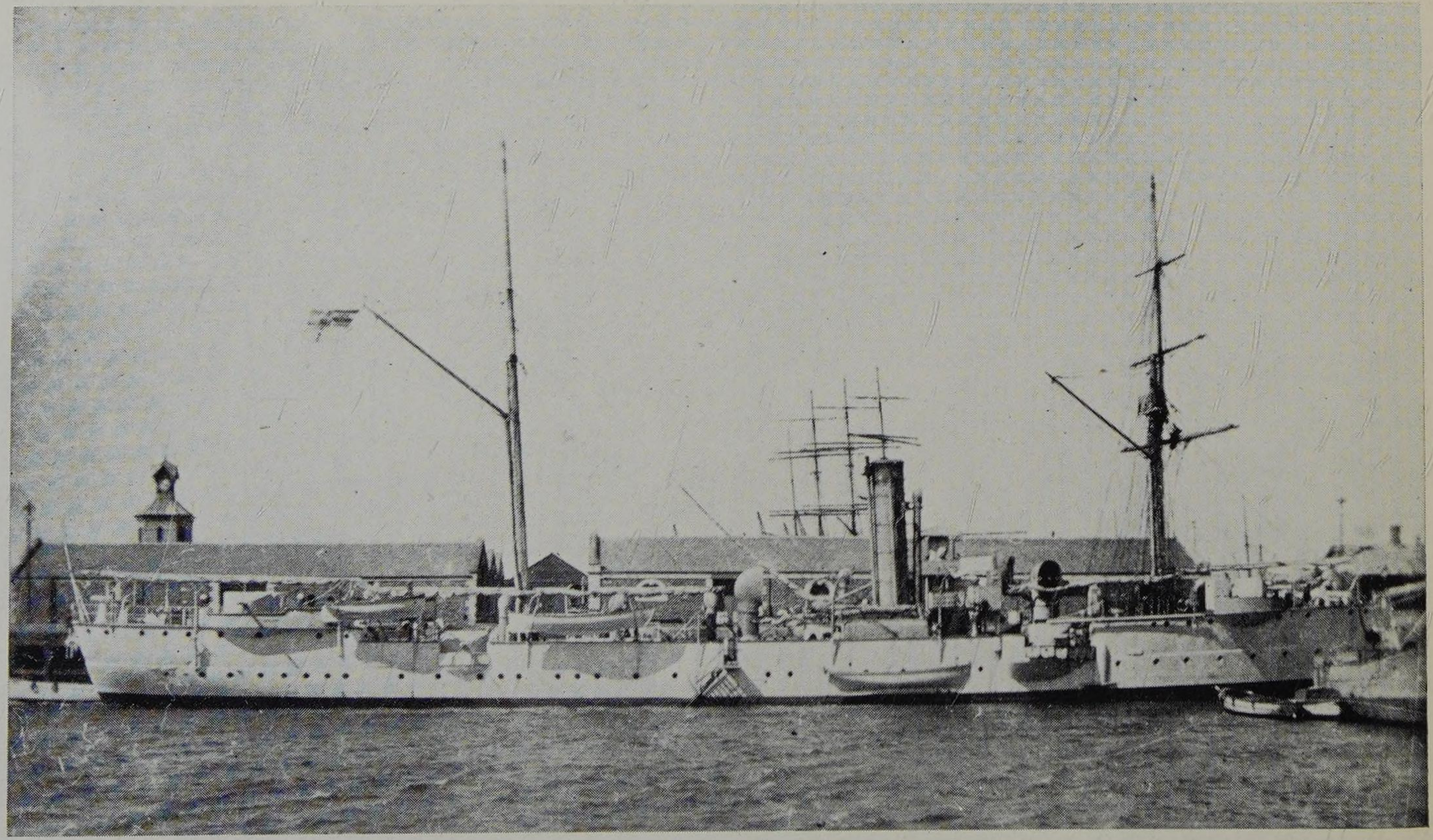
LM—Luftschiff Motoren—Fast motor boats with airship engines.

LM1-LM33

Displacement: 15/17 tons.
Dimensions: 48/56 × 7½/8½ × 2/3½ ft.
Machinery: 2-shaft petrol engines, B.H.P. 630/720 = 28/32 knots.
Armament: 1—18 in. (bow) fixed T.T., 1 M.G.

LM1	Lürssen, Vegesack.
LM2	,, ,,
LM3	Naglo-Werft, Zeuthen bei Berlin.
LM4	,, ,,
LM5	Max Oertz, Hamburg.
LM6	,, ,,
LM7 to LM10	Lürssen, Vegesack.
LM11 to LM13	Naglo-Werft, Zeuthen bei Berlin.
LM14 to LM16	Max Oertz, Hamburg.
LM17 to LM20	Roland Werft Vertens & Co., Hemelingen.
LM21 to LM26	Lürssen, Vegesack.
LM27 to LM30	Max Oertz, Hamburg.
LM31 to LM33	Roland Werft Vertens & Co., Hemelingen.

Notes: Completed 1917/18.
LM1—LM19 originally numbered L1-L19.
LM1 lost 5.3.18 petrol explosion.
LM2 lost 17.4.18 petrol explosion.
LM7-LM10 and LM14-LM21 transported 1918 to Pola.
LM24-LM26 and LM29-LM33 not completed.
Later re-lettered in UZ(S) series and from 1926 onwards majority sold.



The old sloop SEEADLER, lost by explosion on April 19, 1917. [*P. A. Vicary*

Iltis class

Displacement: ILTIS 1,497 tons, JAGUAR 1,462 tons.
Dimensions: 210½ × 30 × 11½ ft.
Machinery: 2-shaft Reciprocating (HTE) engines, I.H.P. 1,400 = 15½ knots. Coal fired.
Armament: 4—3·4 in. (4 × 1) guns.
Complement: 126.

ILTIS	Schichau, Danzig	4. 8.98	28.9.14 scuttled, Tsingtao
JAGUAR	,,	19. 9.98	7.11.14 scuttled, Tsingtao

Notes: Completed 1898/99, small gunboats for foreign service.

Tiger class

Displacement: TIGER 1,665 tons, LUCHS 1,622 tons.
Dimensions: 210½ × 30 × 12 ft.
Machinery: 2-shaft Reciprocating TIGER VTE, LUCHS HTE, engines, I.H.P. 1,350 = 14 knots. Coal fired.
Armament: TIGER 2—4·1 in. (2 × 1) guns, LUCHS 4—3·4 in. (4 × 1) guns.
Complement: 126.

TIGER	Danzig D.Y.	15. 8.99	29.10.14 scuttled, Tsingtao.
LUCHS	,,	18.10.99	28. 9.14 scuttled, Tsingtao.

Notes: Completed 1900, small gunboats for foreign service.

Panther class

Displacement: PANTHER 1,675 tons, EBER 1,632 tons.
Dimensions: 211 × 31¾ × 11½ ft.
Machinery: 2-shaft Reciprocating (HTE) engines, I.H.P. 1,350 = 14 knots. Coal fired.
Armament: 2—4·1 in. (2 × 1) guns.
Complement: 130.

PANTHER	Danzig D.Y.	1.4.01	1931 scrapped, Wilhelmshaven.
EBER	A. G. Vulcan, Stettin	6.3.03	26.10.17 scuttled, Bahia.

Notes: Completed 1902/03. PANTHER foreign service to 1914, then coastal defence, 1920 disarmed, survey ship 31.3.31 stricken. EBER 31.8.14 armament transferred to A.M.C. CAP TRAFALGAR off Trinidad. EBER under merchant flag interned Bahia, scuttled on Brazil's entry into war.

An old photograph of the gunboat WACHT, showing the elaborate decoration on bow. [*P. A. Vicary*

Meteor

Displacement: 1,200 tons.
Dimensions: 220 × 33½ × 12½ ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 1,550 = 11½ knots.
Armament: Projected—4—4·1 in (4 × 1) guns.

METEOR	Danzig D.Y.	18.1.15	1946 to Russia as EKVATOR.

Notes: Construction suspended during war and completed 1924 with no armament as survey/fishery protection vessel. 1930 1—3·4 in. A.A., 2—20 mm. A.A. guns. 1934 rebuilt Deutsche Werft, Kiel converted to diesel propulsion.

OLD SLOOPS

Seeadler class

Displacement: 1,612 tons.
Dimensions: 261 × 32¾ × 15 ft.
Machinery: 2-shaft Reciprocating (HTE) engines, I.H.P. 2,800 = 15½/16 knots. Coal fired.
Armament: 8—4·1 in. (8 × 1) guns, 2—14 in. (2 × 1) T.T.
Complement: 161.

SEEADLER ex-KAISERADLER	Danzig D.Y.	2.2.92	19.4.17 lost by explosion, Jade.
KONDOR	Blohm & Voss, Hamburg	23.2.92	1921 scrapped, Hamburg.
KORMORAN	Danzig D.Y.	17.5.92	28.9.14 scuttled off Tsingtao.

Notes: Completed 1892/93. KAISERADLER renamed 27.6.92, foreign service to 1914, then mining hulk, Wilhelmshaven. KONDOR foreign service to 1914, then mining hulk Kiel-Friedrichsort, 18.11.21 stricken. KORMORAN 1894-1903 and 1909-1914 foreign service, 8.14 at Tsingtao.

Geier

Displacement: 1,608 tons.
Dimensions: 261 × 33 × 14½ ft.
All other details as SEEADLER, but 2—18 in. (2 × 1) T.T.

GEIER	Wilhelmshaven D.Y.	18.10.94	21.6.18 lost off North Carolina.

Notes: Completed 1895. Foreign service to 1914. 7.11.14 interned Honolulu, 1918 to U.S.A. as CARL SCHURZ.

SCHWALBE SPERBE	Old gunboats displacing 1.111 tons built 1887/8 at Wilhelmshaven D.Y. Reduced to hulks before war and scrapped 1922.
IRENE PRINZESS WILHELM	Old cruisers displacing 4,500 tons built 1887 by A. G. Vulcan, Stettin, and Germaniawerft, Kiel, respectively. Reduced to hulks 17.2.14 and scrapped 1922.
GREIF	Old sloop displacing 2,000 tons built 1887 by Germaniawerft, Kiel. Reduced to hulk 1912 and scrapped 1922.
WACHT JAGD	Old gunboats displacing 1,062 tons built 1887/89 by A. G. Weser, Bremen. WACHT lost in collision with coastal defence ship SACHSEN in Baltic, 4.9.01. JAGD 14.5.10 reduced to hulk at Torpedo Depot, Friedrichsort, 1920 scrapped Rustringen.
METEOR	Old sloop displacing 1,639 tons built 1891 by Germaniawerft, Kiel, 24.6.11 reduced to hulk as accommodation ship, Kiel, 1919 scrapped Audorf-Rendsburg.
KOMET	Old sloop displacing 1,717 tons built 1893 by A. G. Vulcan, Stettin. 24.6.11 stricken, mining hulk at Emden, 1921 scrapped Hamburg.

CHINA RIVER GUNBOATS

Tsingtau class

Displacement: 223 tons.
Dimensions: 157½ × 26¼ × 3 ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 1,300 = 13 knots. Coal fired.
Armament: 1—3·4 in. 2—4 pdr. (2 × 1) guns.
Complement: 47.

TSINGTAU	Schichau, Elbing	18.4.03	2.8.14 interned Canton, 21.3.17 scuttled to avoid seizure by Chinese.
VATERLAND	,,	26.8.03	18.8.14 interned Nanking, 20.3.17 taken over by Chinese as LI-SUI, 1932 to Manchuk-uo as LISUI, Japanese RISUI.

Notes: Completed 1904 for service on Chinese rivers.

Otter

Displacement: 266 tons.
Dimensions: 174 × 28¼ × 3 ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 1,728 = 15 knots. Coal fired.
Armament: 2—4 pdr (2 × 1) guns.
Complement: 47.

OTTER	J. C. Tecklen-borg Geestemünde	15.7.09	18.8.14 interned, Nanking, 20.3.17 taken over by Chinese as LI-TSCHEH, 1932 scrapped.

Notes: Completed 1910 for service on Chinese rivers.

PART 9 — MISCELLANEOUS VESSELS

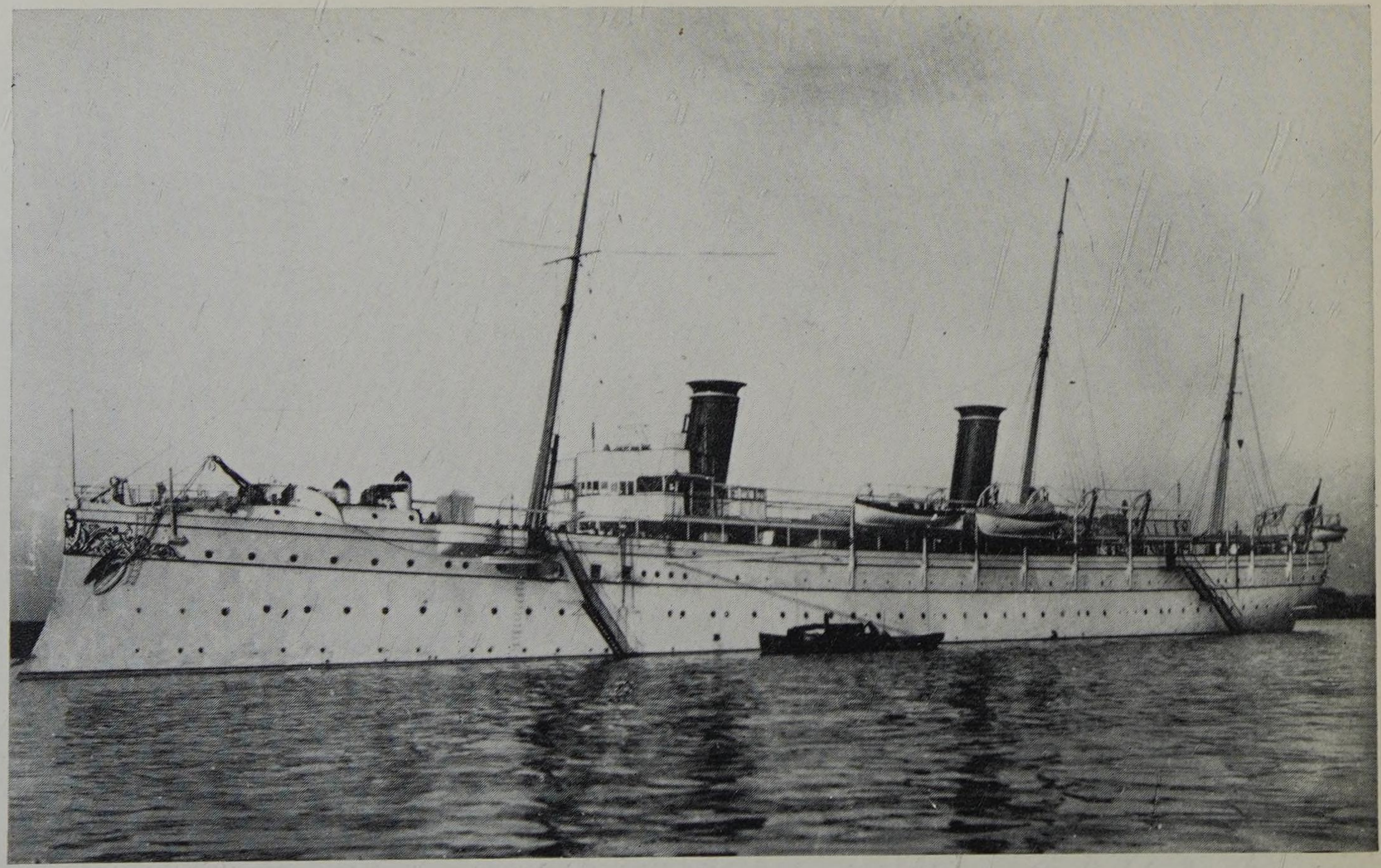
IMPERIAL YACHT

Hohenzollern

Displacement: 4,200 tons.
Dimensions: 380 × 46 × 19 ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 9,500 = 21½ knots. Coal fired.
Armament: Wartime—3—4·1 in. (3 × 1), 12—4 pdr. (12 × 1) guns.
Peacetime—8—4 pdr. (8 × 1) guns.
Complement: 348.

HOHENZOLLERN	A. G. Vulcan, Stettin	27.6.92	27.12.20 stricken, 1923 scrapped, Wilhelmshav-en.

Notes: Re-constructed 1907. Torpedo boat SLEIPNER used as tender.



The German Imperial yacht HOHENZOLLERN. [*P. A. Vicary*

STATION SHIP

Loreley ex-Mohican

Displacement: 925 tons.
Dimensions: 207 × 27 × 13½ ft.
Machinery: 1-shaft Reciprocating engine, I.H.P. 600 = 12 knots. Coal fired.
Armament: 2—4 pdr. (2 × 1) guns.
Complement: 60.

LORELEY ex-MOHICAN	D. W. Henderssen & Co., Glasgow	1884	1.1.26 lost, Black Sea.

Notes: Ex private yacht MOHICAN, bought into German Navy 6.8.96. Station ship at Constantinople (Istanbul, 2.11.18 stricken, sold, HADJI PASCHA (Turkish).

Old torpedo boats D1 and D2 used as station ships before war.

SURVEY SHIPS

Mowe class

Displacement: 650 tons.
Dimensions: 160¾ × 32 × 9 ft.
Machinery: 1-shaft Reciprocating engine, I.H.P. 350 = 9½ knots. Coal fired.
Armament: 3—37 mm (3 × 1) guns.
Complement: 104.

MÖWE	Wilhelmshaven D.Y.	2.7.06	9.8.14 scuttled Dar-es-Salaam.
PLANET	A. G. Weser, Bremen	2.8.05	7.10.14 sunk off Yapp, Pacific Ocean.

Notes: On foreign service at outbreak of war.

Hyane

Displacement: 495 tons.
Dimensions: 137¾ × 25 × 10½ ft.
Machinery: 1-shaft Reciprocating engine, I.H.P. 340 = 8 knots. Coal fired.

Armament: 1—3·4 in., 1—4 pdr., 2—37 mm. (2 × 1) guns.
Complement: 86.

HYÄNE	Wilhelmshaven D.Y.	27.6.78	2.5.24 sunk off Dieppe, raised, scrapped.

Notes: 7.4.19 stricken, sold. Converted to auxiliary 3 masted schooner SEEWOLF.

SUBMARINE DEPOT AND SALVAGE SHIPS

Vulkan

Displacement: 1,595 tons.
Dimensions: 230 × 55 × $10\frac{1}{2}$ ft.
Machinery: 2-shaft turbines, S.H.P. 1,340 = 12 knots.
Complement: 105.

VULKAN	Howaldtswerke, Kiel	28.9.07	26.4.19 sunk en route to Harwich to surrender.

Notes: Completed 1908. Double hulled vessel designed for raising sunken submarines, with docking space 177 × 26 ft. Designed to raise 500 tons.

Cyclop

Displacement: 4,010 tons,
Dimensions: 279 × 64 × 13 ft.
Machinery: 2-shaft Reciprocating engines ,I.H.P. 1,800 = 9 knots.
Complement: 124.

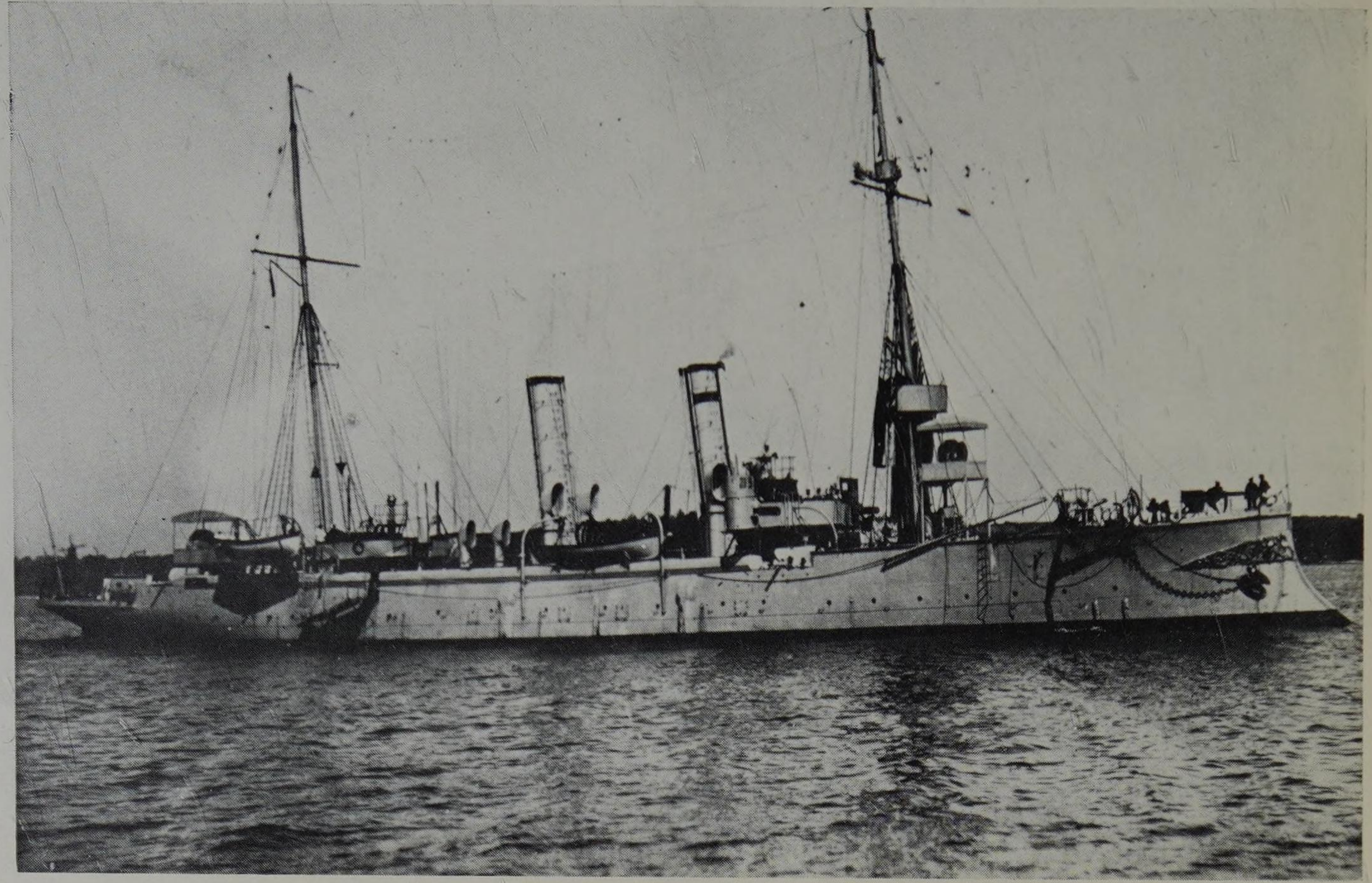
CYCLOP	Danzig	1916	1922 sold for scrapping.

Notes: Completed 1917. Submarine salvage vessel with designed lift of 1,200 tons.

FISHERY PROTECTION CRUISERS

Zieten

Displacement: 1,010 tons.
Dimensions: $226\frac{1}{4}$ × 28 × $13\frac{3}{4}$ ft.
Machinery: 2-shaft Reciprocating engines, I.H.P. 1,800 = 13 knots. Coal fired.
Armament: 6—4 pdr. (6 × 1) guns.
Complement: 108.



The old sloop PFIEL was used as a tender to the High Seas Fleet [*P. A. Vicary*

ZIETEN	Thames Ironworks, London.	9.3.76	6.12.19 stricken, 1921 scrapped, Wilhelmshaven.

Notes: Fishery protection duties before, and coastal defence during war. Old torpedo boats D3, T61, T62 and sloop SCHWALBE also engaged on this duty before war.

TENDERS

Blitz class

Displacement: 1,390 tons.
Dimensions: 246 × 34½ × 13¾ ft.
Machinery: 2-shaft Reciprocating engines, I.H.P. 2,700 = 15 knots. Coal fired.
Armament: 6—3·4 (6 × 1) guns.
Complement: 134.

BLITZ	Norddeutscher-Schiffbau A.G., Kiel	2.8.82	1921 scrapped.
PFEIL	Wilhelmshaven D.Y.	16.9.82	1922 scrapped.

Notes: Old sloops used before and during war as tenders to High Sea Fleet.

Nordsee

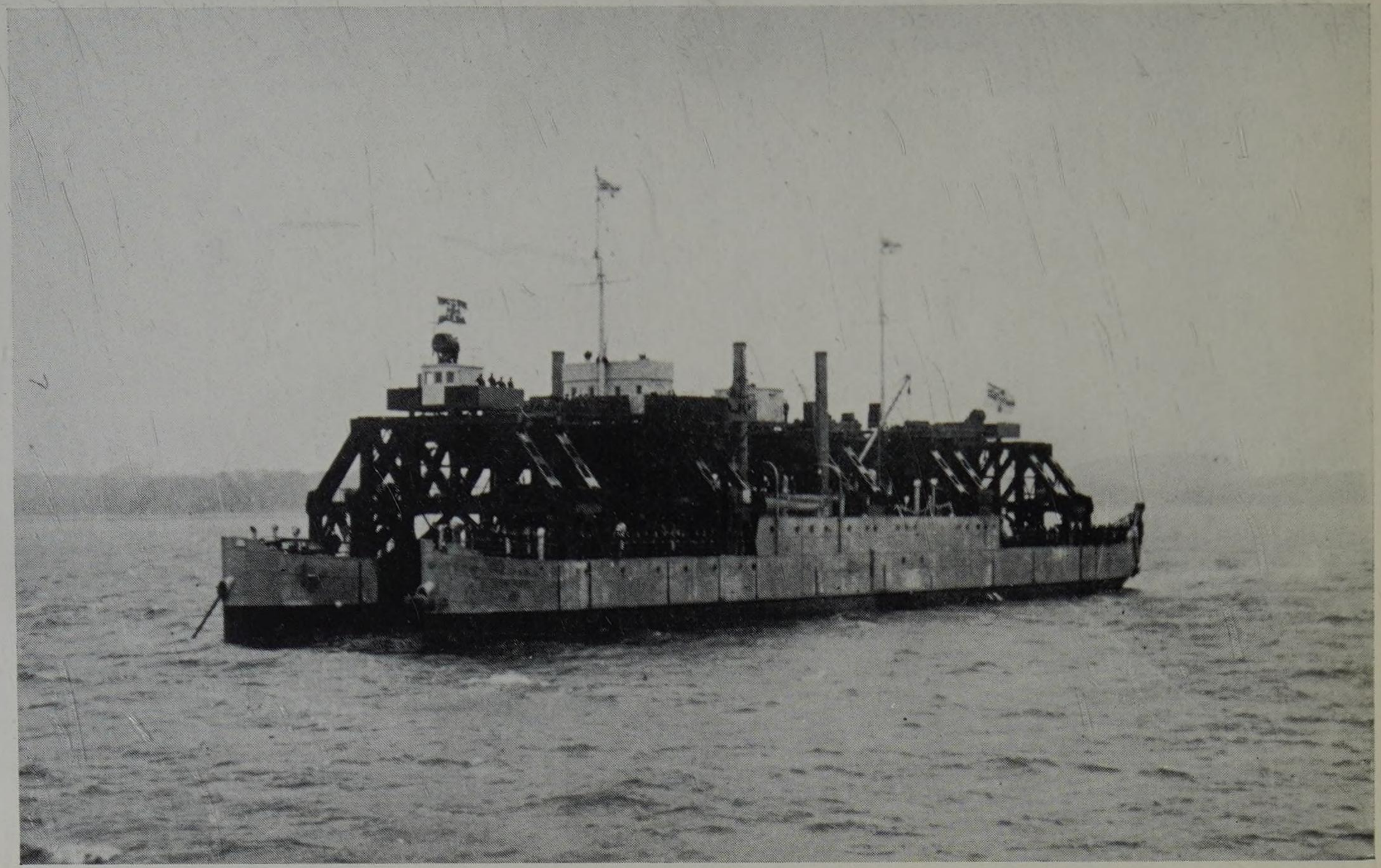
Displacement: 820 tons.
Dimensions: 175 × 30¾ × 12 ft.
Machinery: 2-shaft Reciprocating (VTE) engines, I.H.P. 1,680 = 12 knots. Coal fired.
Armament: 3—3·4 in. (3 × 1) guns.
Complement: 57.

NORDSEE	Atlaswerke, Bremen	4.7.14	1945 to U.S.A.

Drache

Displacement: 790 tons.
Dimensions: 176 × 31¾ × 10½ ft.
Machinery: 1-shaft Reciprocating engine, I.H.P., 670 = 15 knots. Coal fired.
Armament: 4—3·4 in. (4 × 1), 4—4 pdr. (4 × 1) guns.
Complement: 68.

DRACHE	Germaniawerft, Kiel	11.6.08	18.4.45 bombed and sunk, Pillau.



The submarine salvage vessel CYCLOP with a designed lift of 1,200 tons. [*Imperial War Museum*

Delphin

Displacement: 450 tons.
Dimensions: $135\frac{1}{2} \times 27\frac{1}{4} \times 10$ ft.
Machinery: 1-shaft Reciprocating engine, I.H.P. 450 = $12\frac{1}{2}$ knots. Coal fired.
Armament: 4—3·4 in. (4 × 1) guns.
Complement: 51.

DELPHIN	Meyer, Papenburg	26.1.06	3.12.25 stricken.

Notes: 1926 sold for merchant use, OPTIMIST.

Fuchs

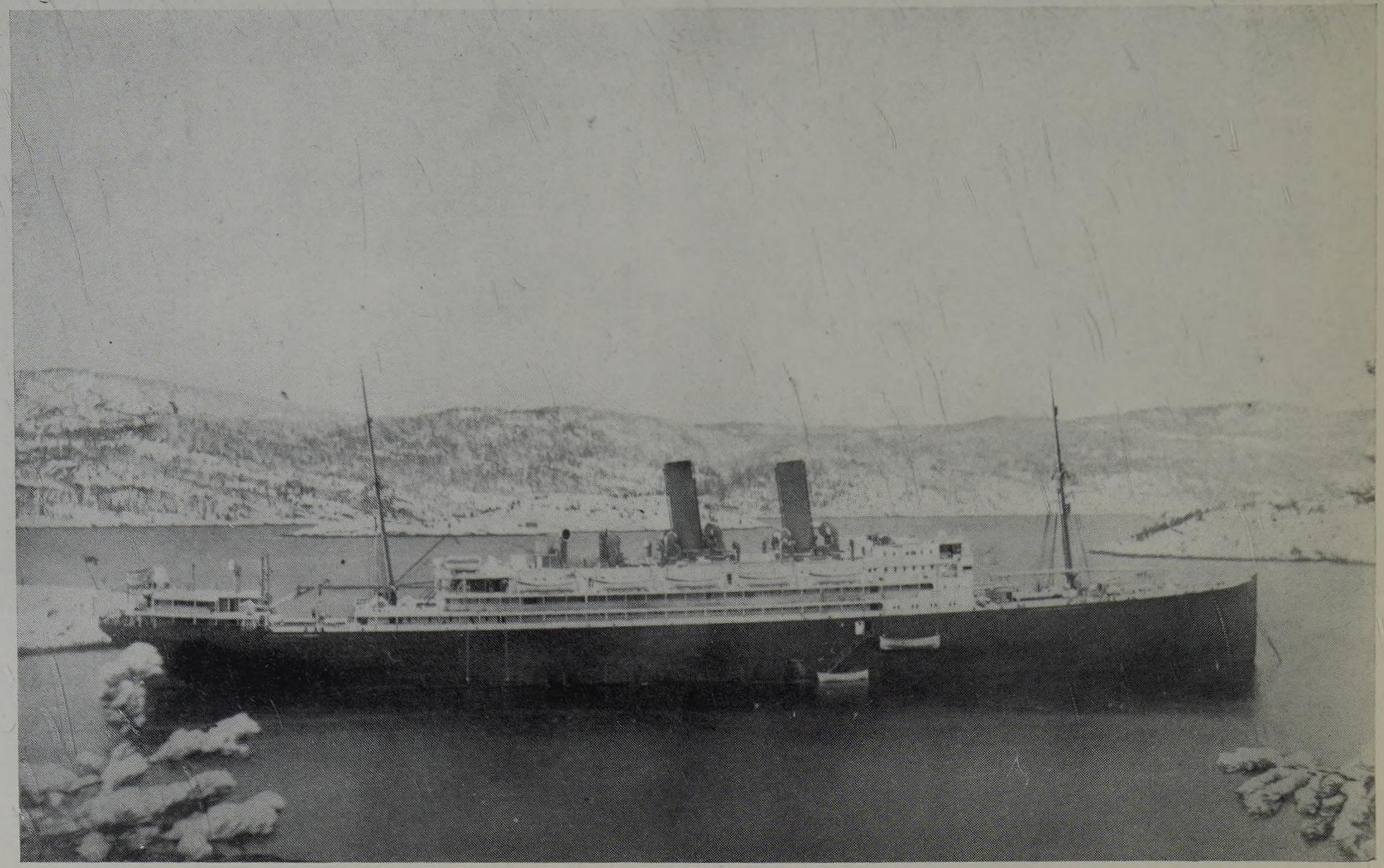
Displacement: 640 tons.
Dimensions: $140\frac{3}{4} \times 27\frac{1}{4} \times 10$ ft.
Machinery: 1-shaft Reciprocating engine, I.H.P. 1,100 = 12 knots. Coal fired.
Armament: 2—4·1 in. (2 × 1), 2—3·4 in. (2 × 1) guns.
Complement: 55.

FUCHS	Meyer, Papenburg.	29.7.05	12.5.28 stricken, 1929 scrapped.

Hay

Displacement: 640 tons.
Dimensions: $140\frac{3}{4} \times 27\frac{1}{4} \times 10$ ft.
Machinery: 1-shaft Reciprocating engine, I.H.P. 1,100 = 12 knots Coal fired.
Armament: 4—3·4 in. (4 × 1) guns.
Complement: 55.

HAY	Seebeck, Geestemünde	7.8.07	4.10.32 stricken, 5.45 scuttled. Wilhelmshaven.



The auxiliary minelayer BERLIN laid up in Lofjord, near Trondheim, Norway, after internment.

PART 10 — AUXILIARY CRUISERS, ARMED MERCHANT CRUISERS AND RAIDERS

Before the war many of the larger German liners, with speeds of 18 knots and over had been earmarked for wartime conversion to armed merchant cruisers, being suitably strengthened for gun positions, and with the appropriate armament in reserve.

Among these were KRONPRINZESSIN CECILIE (19,500 grt.), KAISER WILHELM II (19,300 grt.), KRONPRINZ WILHELM (15,000 grt.) KAISER WILHELM DER GROSSE (14,350 grt.) GEORGE WASHINGTON (27,000 grt.), PRINZ FRIEDRICH WILHELM (17,100 grt.), BERLIN (17,300 grt.) and IMPERATOR (50,000 grt.).

The outbreak of war found many of the larger German liners in foreign ports, notably New York, where they were kept under surveillance by the Royal Navy until America's entry into the war in 1917, when they were taken over for use as transports.

Other liners, although away from Germany rendezvoused with German warships, usually obsolete vessels of little fighting power, and received their armament.

As in the Royal Navy, it soon showed that the use of large liners as auxiliary cruisers was uneconomical. Not only did they need an inordinate amount of fuel, but their large freeboard made them easy targets and their relatively light construction could not meet the heavy weather conditions demanded by wartime naval service.

A far more effective form of auxiliary cruiser was the converted cargo vessel. Fitted with concealed armament a vessel of such type could be encountered anywhere in the world without arousing suspicion, which a well known liner away from its normal run would immediately do.

In the Royal Navy such conversions were used as Q Ships for the purpose of trapping submarines, while in the Germany Navy they became the most famous and dangerous commerce raiders. Ships such as MÖWE and WOLF established a tradition which was carried on to World War II.

The great hazard of all commerce raiders operating away from their home ports is that of securing fuel supplies. Before the war a network of supply contacts had been built up by and through the German consular service, and this functioned efficiently.

To obviate the fuel problem, the most colourful raider of all was commissioned, the three masted full rigged ship SEEADLER, which successfully broke out disguised as the Norwegian ship IRMA, and made a successful cruise before being wrecked on Mopelia, in the Pacific Ocean.

Note: In the details of merchant ships converted, the tonnage given is Gross Registered Tons, and horsepower is Nominal Horsepower, as given in Lloyds Register. Dates given are those of completion.

Prinz Eitel Friedrich

Tonnage: 8,987 grt.
Dimensions: 488 × 55 × 32 ft.
Machinery: 2-shaft Reciprocating (VTE) engines, N.H.P. 417 = 15 knots.
Armament: 4—4·1 in., 6—3·4 in., 12—37 mm. guns.

PRINZ EITEL FRIEDRICH	A. G. Vulcan, Stettin	Comp. 1904	1934/35 scrapped.

Notes: Ex-North German Lloyd liner. Converted Tsingtao, 6.8.14 sailed with armament from gunboats TIGER, LUCHS, ILTIS and KORMORAN. 10.3.15 forced to seek internment Newport News, U.S.A., through lack of fuel. 1917 became U.S. transport DE KALB, 1920 sold, MOUNT CLAY, (U.S.A.).

Kaiser Wilhelm der Grosse

Tonnage: 14,349 grt.
Dimensions: 626 × 66 × 39 ft.
Machinery: 2-shaft Reciprocating (VTE) engines, N.H.P. 3,094 = 22½ knots.
Armament: 6—4·1 in., 2—37 mm. guns.

KAISER WILHELM DER GROSSE	A. G. Vulcan, Stettin	1902	26.8.14 sunk, Rio de Oro, R.N. cruiser HIGHFLYER.

Notes: Ex-North German Lloyd liner, 4.8.14 sailed, Germany.

Cap Trafalgar

Tonnage: 18,710 grt.
Dimensions: 590 × 72 × 40 ft.
Machinery: 3-screw. 2-shaft Reciprocating engines, 1-shaft turbine. 18 knots.
Armament: 2—4·1 in., 6—37 mm guns.

CAP TRAFALGAR	Bremer Vulcan, Hamburg	1913	14.9.14 sunk, S. Atlantic, off Trinidad, R.N. A.M.C. CARMANIA.

Notes: Ex-Hamburg South America liner. 23.8.14 sailed Montevideo, rendezvoused at sea off Bahia with gunboat EBER, receiving that ship's armament.

Kronprinz Wilhelm

Tonnage: 14,908 grt.
Dimensions: 673 × 66 × 39 ft.
Machinery: 2-shaft Reciprocating (VTE) engines, N.H.P. 3,534 = 23 knots.
Armament: 2—3·4 in. guns. Plans called for 6—4·1 in., but ship was away from Germany at outbreak of war.

KRONPRINZ WILHELM	A. G. Vulcan, Stettin	1901	1923 scrapped.

Notes: Ex-North German Lloyd liner. 6.8.14 rendezvoused with German cruiser KARLSRUHE and received armament, 10.4.15 interned Newport News, 1917 seized by U.S.A. as transport VON STEUBEN.

Mowe ex-Pungo

Tonnage: 4,595 grt.
Dimensions: 386 × 49 × 30 ft.
Machinery: 1-shaft Reciprocating (VTE) engine, N.H.P. 400 = 13 knots.
Armament: 4—5·9 in., 1—4·1 in., 1—22 pdr. guns, 2—20 in. T.T., 250 mines.

MÖWE ex-PUNGO	J. C. Tecklenborg, Geestemünde	1914	7.4.45 bombed and sunk, Sognefjord, Norway.

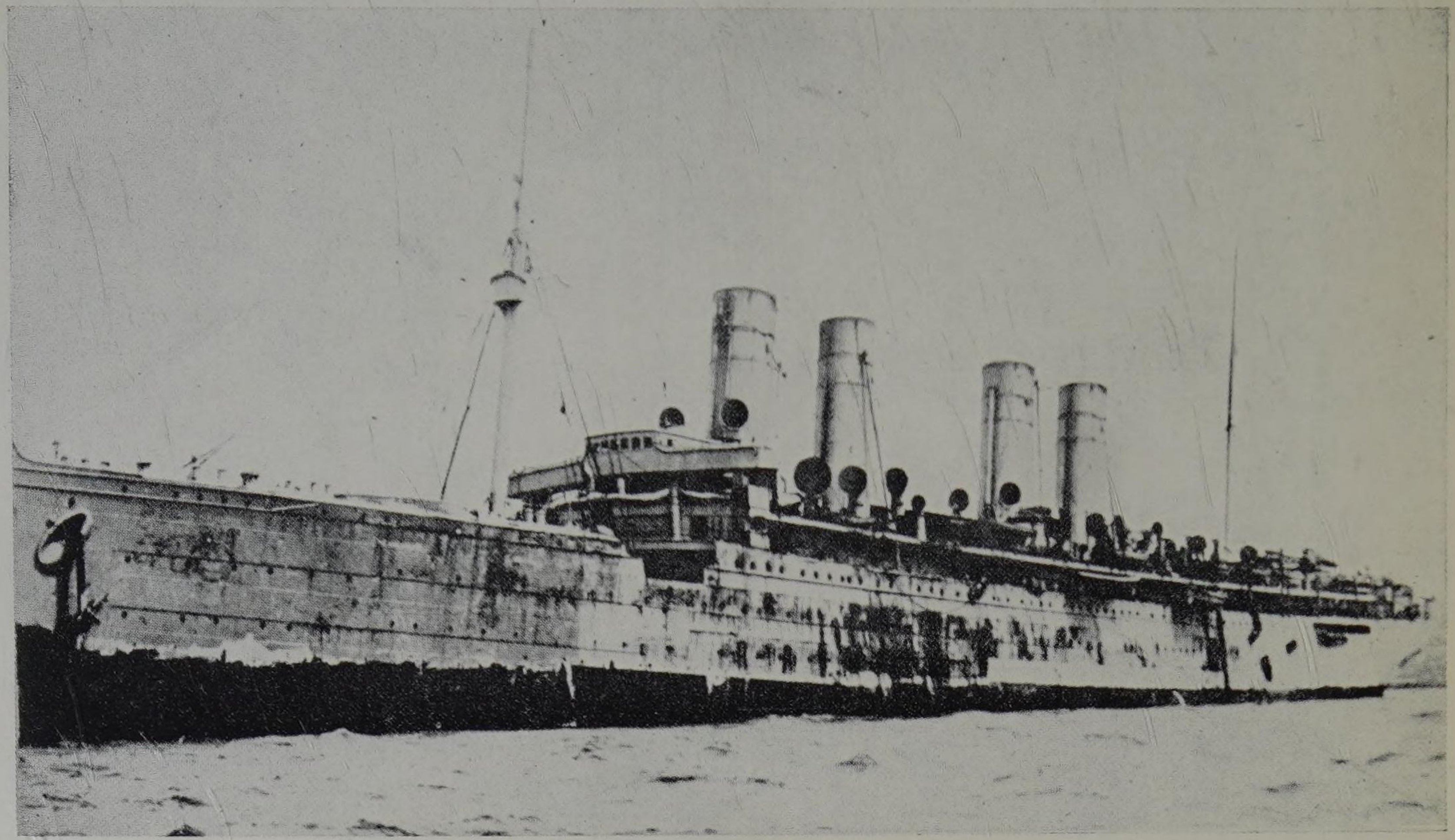
Notes: Ex-F. Laeisz Line. First cruise sailed 12.15, returned 4.3.16. Second cruise sailed 22.11.16, retirned 22.3.17. After war to U.K. as reparations, 1920 GREENBRIER, 1933 OLDENBURG (German).

Leopard ex-Yarrowdale

Tonnage: 4,652 grt.
Dimensions: 390 × 53 × 36 ft.
Machinery: 1-shaft Reciprocating (VTE) engine, N.H.P. 429.
Armament: 5—5·9 in., 4—3·4 in. guns; 2—20 in. T.T.

LEOPARD ex-YARROWDALE	W. Dobson & Co., Newcastle	1912	16.3.17 sunk N.E. of Faroes, R.N. armed boarding steamer DUNDEE and cruiser ACHILLES.

Notes: Ex-R. Mackill, Glasgow. Captured as prize by MÖWE 11.12.16, reached Germany 31.12.16, fitted as raider, sailed Swinemunde 3.17.



The liner KRONPRINZ WILHELM became an auxiliary cruiser as shown, and finally the US transport VON STEUBEN.

Greif ex-Guben

Tonnage: 4.963 grt.
Dimensions: 418 × 54 × 36 ft.
Machinery: 1-shaft Reciprocating (VTE) engine, 16 knots.
Armament: 4—5·9 in., 1—4·1 in. guns; 2—20 in. T.T.

GREIF ex-GUBEN	A. G. Neptun, Rostock	1906	29.2.16 sunk R.N. A.M.C. ALCANTARA, cruiser COMUS, destroyer MUNSTER.

Notes: Ex-German Australian S.S. Co., 27.2.16 sailed Hamburg, intercepted while running blockade. In ensuing action sank ALCANTARA.

Wolf (I) ex-Belgravia

Tonnage: 6.648 grt.
Dimensions: 444 × 53 × 31½ ft.
Machinery: 1 shaft Reciprocating (VTE) engine, N.H.P. 402.
Armament:

WOLF ex-BELGRAVIA	Workman, Clark & Co., Ltd., Belfast	1906	1934 scrapped in Italy.

Notes: Ex-Hamburg America Line. Sailed 2.16 as raider, ran aground in Elbe estuary, salved, disarmed and not used again as raider. 1919 to France, 1921 IOWA (French).

Wolf (II) ex-Wachtfels

Tonnage: 5,809 grt.
Dimensions: 419 × 56 × 29 ft.
Machinery: 1-shaft Reciprocating (VTE) engine, N.H.P. 530 = 10½ knots.
Armament: 2—5·9 in., 2—4·1 in., 2—4 pdr. guns; 4—20 in. T.T., 465 mines; 1 seaplane.

WOLF ex-WACHTFELS	Flensburger Schiffsbau Ges., Flensburg	1913	1931 scrapped in Italy.

Notes: Ex-Hansa Line. Sailed 31.11.16, returned 19.2.18. 5.4.19 surrendered to France as WACHTFELS, 1921 ANTINOUS (French).

Kormoran ex-Riasan

Tonnage: 3,522 grt.
Dimensions: 338 × 45 × 29 ft.
Machinery: 1-shaft Reciprocating (VTE) engine, N.H.P. 654 = 14 knots.
Armament: 8—4·1 in. guns.

KORMORAN ex-RIASAN	Schichau, Danzig	1909	7.4.17 scuttled, Guam, to avoid seizure by U.S.A.

Notes: Ex-Russian Volunteer Fleet. 4.8.14 captured by German cruiser EMDEN, to Tsingtao as prize. Received armament from gunboat VATERLAND and survey ship PLANET. Interned, Guam after short cruise.

Seeadler ex-Pass of Balmaha

Tonnage: 1,571 grt.
Dimensions: 245½ × 38¾ × 22 ft.
Machinery: 3 masted full rigged ship. 2 shaft-auxiliary diesels = 10 knots.
Armament: 2—4·1 in. guns; 2—20 in. T.T.

SEEADLER ex-PASS OF BALMAHA	R. Duncan & Co., Port Glasgow	1888	8.17 wrecked, Mopelia, Society Islands, Pacific.

Notes: Ex-Pass of Balmaha Shipping Co., Inc. (U.S. flag), 4.8.15 voluntarily surrendered to German submarine in North Sea, 21.12.16 sailed as raider, disguised as Norwegian ship IRMA.

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